

WATER SAMPLING AND REPORTING SERVICES

COLUMBIA PUBLIC SCHOOLS
GENTRY MIDDLE SCHOOL
4200 BETHEL STREET
COLUMBIA, MISSOURI

Prepared for:

COLUMBIA PUBLIC SCHOOLS
COLUMBIA, MISSOURI

Prepared by:

GEOTECHNOLOGY, LLC, DBA UES St. Louis, Missouri

Date:

DECEMBER 21, 2024

Project No.:

J044517.01





Environmental
Geotechnical Engineering
Materials Testing
Field Inspections & Code Compliance
Geophysical Technology

December 21, 2024

Mr. David Seamon District Project Manager Columbia Public Schools 1818 West Worley Street Columbia, Missouri 65203

Re: Water Sampling and Reporting Services

Columbia Public Schools Gentry Middle School 4200 Bethel Street Columbia, Missouri Project No. J044517.01

Dear Mr. Seamon:

In accordance with Columbia Public Schools' (CPS) Request for Proposal No. C-24043, dated October 10, 2023, Geotechnology, LLC, dba UES, is pleased to provide this drinking water sampling report for the referenced project. Our scope of services included flushing and sampling of drinking water from potable water outlets, laboratory analysis of water samples, and a letter report.

SITE AND PROJECT DESCRIPTION

The subject property consists of the existing Columbia Public Schools Gentry Middle School, located southeast of the intersection of Bailey Drive and Bethel Street in Columbia, Missouri. The purpose of the drinking water sampling was to identify potable water outlets that may require remediation in accordance with the State of Missouri's *Get the Lead out of School Drinking Water Act* (RSMo 160.077).

DRINKING WATER SAMPLING

RSMo 160.077 sets standards for lead concentrations in school drinking water, stating that each Missouri school shall provide drinking water with a lead concentration level below five (5) parts per billion (ppb). This Act requires schools to conduct the inventory, sampling, remediation, and monitoring at all potable drinking water outlets used or potentially used for drinking, food preparation, and cooking or cleaning utensils.

In general conformance with the RSMo 160.077 requirements, and the Environmental Protection Agency's (EPA) 3Ts for Reducing Lead in Drinking Water in Schools and Child Care Facilities manual, initial water flushing and sampling activities were conducted on January 15 and 16, 2024, by Mr. Brad Lohrum, a Missouri-licensed lead risk assessor. Mr. Lohrum was assisted by Mr. Bob Haefner, a Missouri-licensed lead risk assessor, and Mr. Jon Tuetken, an



environmental scientist with UES. Copies of training certificates and lead licenses for Messrs. Lohrum and Haefner are included in Appendix A.

An inventory of potable drinking water outlets was provided to UES by CPS. UES personnel sampled the identified outlets utilizing the EPA's "first-draw" methods. The identified outlets were flushed, then allowed to sit undisturbed for a period of 8-18 hours. Following this stagnation period, the first 250 milliliters (ml) of water expelled from the outlets were collected in laboratory-provided containers. Copies of the drinking water sampling forms, which include a list of sample locations, and the times and dates of flushing and sampling activities, are included in Appendix B. Floor plans depicting approximate sample locations are included as Figures 1 and 2.

Using standard chain-of-custody procedures, the drinking water samples were submitted to Teklab, Inc. of Collinsville, Illinois, an independent, certified Missouri Department of Natural Resources (MDNR) Drinking Water and National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory, for analysis of lead content via EPA Method 200.8: Determination of Trace Elements in Waters and Wastes by Inductively Coupled Plasma-Mass Spectrometry.

RESULTS

Laboratory analyses detected the presence of lead at or above 5 ppb in the following samples.

TABLE 1
DRINKING WATER OUTLETS AT OR ABOVE 5 PARTS PER BILLION

Sample Number / Location and Fixture Type	Results
GMS-15 / Room 150 Left-hand Sink	70.8 ppb
GMS-17 / Room 150 Right-hand Sink	28.2 ppb
GMS-19 / Room 152 Sink	5.1 ppb
GMS-22 / Room 153 Red Sink	16.1 ppb
GMS-23 / Room 153 Blue Sink	14.2 ppb
GMS-24 / Room 153 Green Sink	13 ppb
GMS-25 / Room 153 Yellow Sink	20.7 ppb
GMS-26 / Room 153 Orange Sink	7.5 ppb
GMS-27 / Room 155 Sink	12.7 ppb
GMS-28 / Room 160 Sink	47.2 ppb
GMS-29 / Room 160 Bubbler	5.3 ppb
GMS-39 / Room 167 Left Center Sink	10 ppb
GMS-46 / Room 101 Sink	19.3 ppb
GMS-50 / Room 150 Sink	8.1 ppb
GMS-52 / Room 107 Sink	37.1 ppb
GMS-55 / Room 106 Sink	26.5 ppb
GMS-56 / Room 108 Left-hand Sink	17.6 ppb



Sample Number / Location and Fixture Type	Results
GMS-57 / Room 108 Right-hand Sink	20.2 ppb
GMS-58 / Room 108 Eye Wash Sink	8.2 ppb
GMS-62 / Room 111 Sink	33.3 ppb
GMS-64 / Room 113 Sink	17.1 ppb
GMS-66 / Room 115 Sink	12 ppb
GMS-68 / Room 116 Left-hand Sink	18 ppb
GMS-69 / Room 116 Right-hand Bubbler	30.2 ppb
GMS-70 / Room 117 Sink	16.3 ppb
GMS-72 / Room 118 Right-hand Sink	32.1 ppb
GMS-73 / Room 118 Eye Wash Sink	14.2 ppb
GMS-74 / Room 218 Right-hand Sink	42.4 ppb
GMS-75 / Room 218 Eye Wash Sink	33.1 ppb
GMS-76 / Room 217 Sink	23.7 ppb
GMS-78 / Room 216 Left-hand Sink	18.7 ppb
GMS-79 / Room 216 Right-hand Sink	22.5 ppb
GMS-80 / Room 215 Sink	10.3 ppb
GMS-84 / Room 211 Sink	23.8 ppb
GMS-92 / Room 201 Sink	19.6 ppb
GMS-94 / Room 203 Sink	34.9 ppb
GMS-96 / Room 205 Sink	12.3 ppb
GMS-98 / Room 206 Left-hand Sink	56.9 ppb
GMS-99 / Room 206 Right-hand Sink	38.4 ppb
GMS-100 / Room 207 Sink	17.8 ppb
GMS-102 / Room 208 Left-hand Sink	57.8 ppb
GMS-103 / Room 208 Right-hand Sink	84.7 ppb
GMS-104 / Room 208 Eye Wash Sink	17.6 ppb
GMS-109 / Room 99 Right-hand Sink	19.7 ppb
GMS-112 / Office I Sink	149 ppb

UES will not be able to represent that the site contains no lead-bearing water outlets beyond those detected or observed by UES during flushing and sampling activities. Copies of the drinking water analytical results are included in Appendix C.

RECOMMENDATIONS

Our recommendations are summarized below:

• It is our understanding that the outlets identified in Table 1 have either been removed, marked as non-potable, or have otherwise been taken out of service. Should these fixtures be put back into service following remediation activities, or if replacement fixtures are to be put into service, further sampling and testing should be conducted.



* * * * *

The following attachments are included in and complete this report:

Figure 1 - Drinking Water Sample Locations – First Floor
Figure 2 - Drinking Water Sample Locations – Second Floor

Appendix A - Certificates and Licenses of Environmental Professionals

Appendix B - Drinking Water Sampling Forms

Appendix C - Drinking Water Laboratory Data Sheets

Appendix D - Limitations of Report

* * * * * *

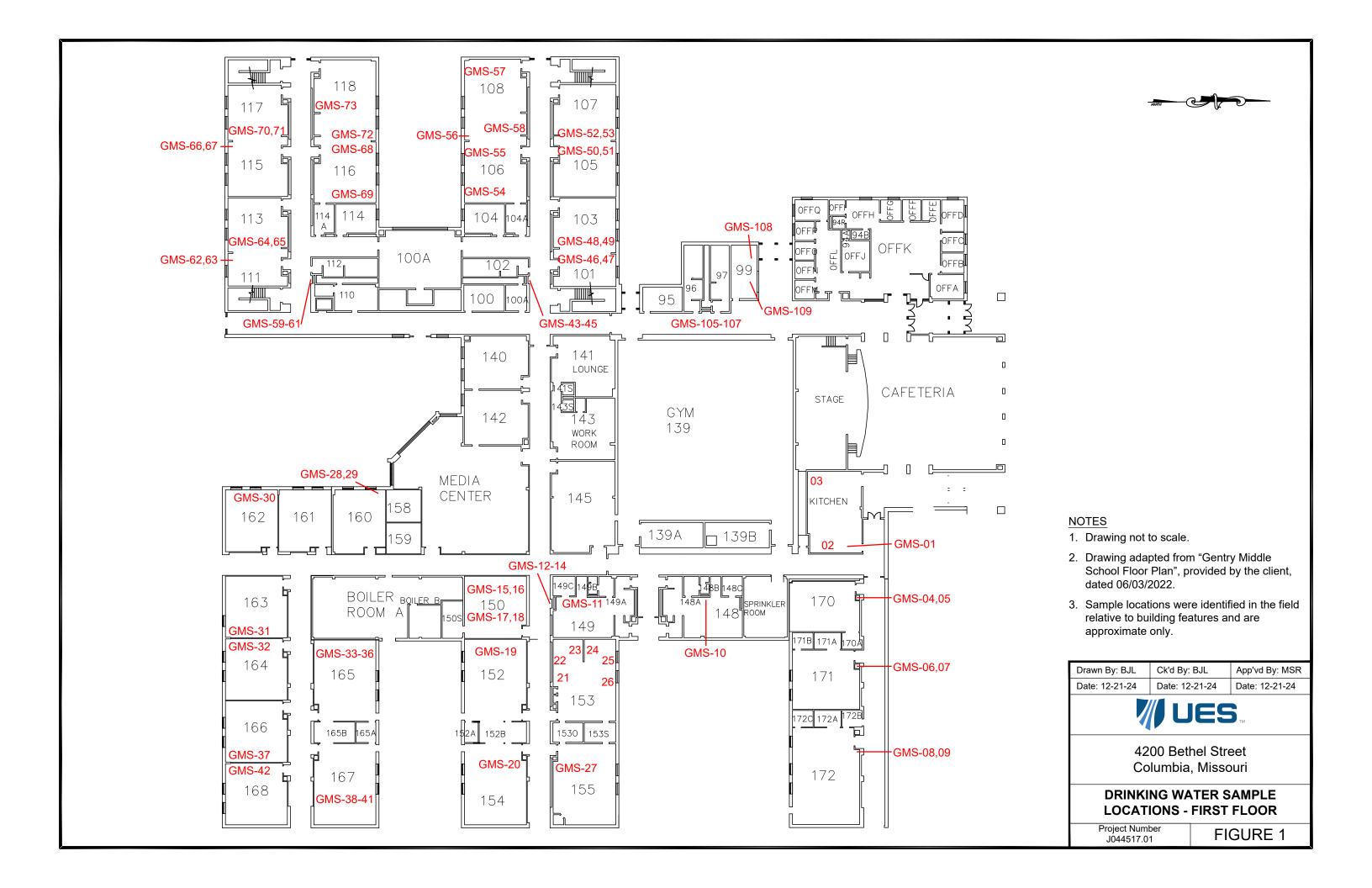
We appreciate the opportunity to provide our professional environmental consulting services to Columbia Public Schools on this project. If you have any questions or comments, please contact me at (314) 997-7440.

Very truly yours,

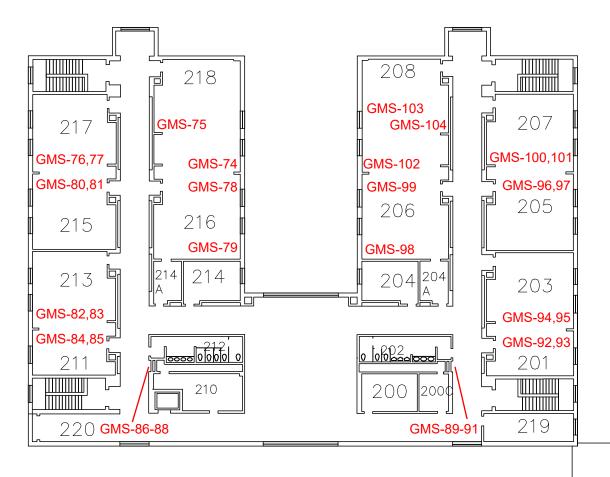
UES

Bradley J. Lohrum Project Manager

BJL/MSR:bjl/jsj







(GYM BELOW) 139

239_—

NOTES

- 1. Drawing not to scale.
- 2. Drawing adapted from "Gentry Middle School Floor Plan", provided by the client, dated 06/03/2022.
- 3. Sample locations were identified in the field relative to building features and are approximate only.

Drawn By: BJL	Ck'd By: BJL	App'vd By: MSR	
Date: 12-21-24	Date: 12-21-24	Date: 12-21-24	



4200 Bethel Street Columbia, Missouri

DRINKING WATER SAMPLE LOCATIONS - SECOND FLOOR

Project Number J044517.01

FIGURE 2



APPENDIX A

CERTIFICATES AND LICENSES OF ENVIRONMENTAL PROFESSIONALS

PUBLIC HEALTH & SOCIAL JUSTICE

SAINT LOUIS UNIVERSITY

CENTER FOR ENVIRONMENTAL EDUCATION AND TRAINING

verifies that

Bradley Lohrum

817 S Sappington Road, Crestwood, MO 63126

has attended 8 contact hours of training and successfully passed an examination

Lead Risk Assessor Refresher

St. Louis, MO

Certificate # CEET 325 - 12/12/2022 - 189152

Examination Date: 12/12/2022

CEUs: 0.8

Christopher C. King PhD

Director, Center for Environmental Education and Training

Certificate expiration is 3 years from examination date for Illinois Dept. of Public Health

Center for Environmental Education and Training, 3545 Lafayette, St. Louis, MO 63104 (314) 977-8256 sh.edu/x39753.xml

This training course has been accredited by the Illinois Department of Public Health, and by the Missouri Department of Health & Senior Services.

STATE OF MISSOURI DEPARTMENT OF HEALTH AND SENIOR SERVICES

LEAD OCCUPATION LICENSE REGISTRATION

Issued to:

Bradley J. Lohrum

The person, firm or corporation whose name appears on this certificate has fulfilled the requirements for licensure as set forth in the Missouri Revised Statutes 701.300-701.338, as long as not suspended or revoked, and is hereby authorized to engage in the activity listed below.

Lead Risk Assessor
Category of License

Issuance Date: 1/20/2023
Expiration Date: 1/20/2025

License Number: 230120-300006460

Paula F. Nickelson
Acting Director
Department of Health and Senior Services

Davea I. Nichel



SAINT LOUIS UNIVERSITY

CENTER FOR ENVIRONMENTAL EDUCATION AND TRAINING

verifies that

Robert Haefner

3951 Dover PI, St. Louis, MO 63116

has attended 8 contact hours of training and successfully passed examination for

Lead Risk Assessor Refresher

St. Louis, MO

Certificate #

CEET 325 3/6/2023

118035

Examination Date:

3/6/2023

CEUs: 0.8

)35

Rene Dulle, MBA, Director

Center for Environmental Education & Training

Center for Environmental Education and Training | 3545 Lafayette Ave., St. Louis, MO 63104 (314) 977-8256 |slu.edu/public-health-social-justice/centers-institutes/ceet.php

The training course has been accredited by the Missouri Dept, of Health and Senior Services, and by the Illinois Dept, of Public Health. Certificate expiration is 3 years from examination date for Illinois Dept, of Public Health.

STATE OF MISSOURI DEPARTMENT OF HEALTH AND SENIOR SERVICES

LEAD OCCUPATION LICENSE REGISTRATION

Issued to

Robert J. Haefner

The person, firm or corporation whose name appears on this certificate has fulfilled the requirements for licensure as set forth in the Missouri Revised Statutes 701.300-701.338, as long as not suspended or revoked, and is hereby authorized to engage in the activity listed below.

Lead Risk Assessor Category of License

Issuance Date: Expiration Date:

License Number:

3/28/2023

3/30/2025

150330-300004672

POPULI SUPREN

Paula F. Nickelson

Acting Director

Department of Health and Senior Services

Lead Licensing Program, PO Box 570, Jefferson City, MO 65102

STATE OF MISSOURI DEPARTMENT OF HEALTH AND SENIOR SERVICES

Lead Abatement Contractor License

The person, firm or corporation whose name appears on this certificate is licensed as a Lead Abatement Contractor as set forth in the Missouri Revised Statutes 701.300-701.338 and 19 CSR 30-70.180, as long as not suspended or revoked, and is hereby authorized to engage in lead-bearing substance activities.

Issued to:

Geotechnology, LLC

11816 Lackland Road, Suite 150 St. Louis, MO 63146

Issuance Date: 2/8/2022 Expiration Date: 2/8/2024

License Number: 060208-0095



Donald G. Kauerauf Director

Department of Health and Senior Services

Lead Licensing Program, PO Box 570, Jefferson City, MO 65102



APPENDIX B

DRINKING WATER SAMPLING FORMS



Project Name: Columbia Public Schools Water

Sampling and Reporting Services

Building Name: Gentry Middle School

Project Number: J044517.01

Address: 4200 Bethel Street

Columbia, Missouri

Sample ID	Fixture Type	Location	Flushed By - Date - Time	Sampled By - Date - Time
GMS-01	S	Kitchen Dishwash - Left	RJH - 1/15/24 - 13:51	RJH - 1/16/24 - 24:26
GMS-02	S	Kitchen Dishwash - Right	RJH - 1/15/24 - 13:51	RJH - 1/16/24 - 24:26
GMS-03	ICE	Kitchen	JFT - 1/15/24 - 13:51	JFT - 1/16/24 - 24:26
GMS-04	S	Room 170	RJH - 1/15/24 - 13:54	RJH - 1/16/24 - 24:28
GMS-05	WF	Room 170	JFT - 1/15/24 - 13:54	JFT - 1/16/24 - 24:28
GMS-06	S	Room 171	JFT - 1/15/24 - 13:55	RJH - 1/16/24 - 24:29
GMS-07	WF	Room 171	RJH - 1/15/24 - 13:55	JFT - 1/16/24 - 24:29
GMS-08	S	Room 172	JFT - 1/15/24 - 14:00	RJH - 1/16/24 - 24:29
GMS-09	WF	Room 172	RJH - 1/15/24 - 14:00	JFT - 1/16/24 - 24:29
GMS-10	WF	Room 148	RJH - 1/15/24 - 14:04	RJH - 1/16/24 - 24:31
GMS-11	WF	Room 149	JFT - 1/15/24 - 14:05	JFT - 1/16/24 - 24:31
GMS-12	WF	Hallway at Room 150 - Left	JFT - 1/15/24 - 14:07	RJH - 1/16/24 - 24:32
GMS-13	BF	Hallway at Room 150 - Right	RJH - 1/15/24 - 14:07	JFT - 1/16/24 - 24:32
GMS-14	WF	Hallway at Room 150 - Right	RJH - 1/15/24 - 14:07	JFT - 1/16/24 - 24:32
GMS-15	S	Room 150 - Left	RJH - 1/15/24 - 14:08	JFT - 1/16/24 - 24:34
GMS-16	В	Room 150 - Left	RJH - 1/15/24 - 14:08	JFT - 1/16/24 - 24:34
GMS-17	S	Room 150 - Right	JFT - 1/15/24 - 14:08	RJH - 1/16/24 - 24:34
GMS-18	В	Room 150 - Right	JFT - 1/15/24 - 14:08	RJH - 1/16/24 - 24:34
GMS-19	S	Room 152	RJH - 1/15/24 - 14:11	RJH - 1/16/24 - 24:35
GMS-20	S	Room 154	JFT - 1/15/24 - 14:11	JFT - 1/16/24 - 24:35
GMS-21	S	S Room 153 - Purple RJH -		RJH - 1/16/24 - 24:37
GMS-22	S	Room 153 - Red	RJH - 1/15/24 - 14:16	RJH - 1/16/24 - 24:37
GMS-23	S	Room 153 - Blue	RJH - 1/15/24 - 14:16	RJH - 1/16/24 - 24:37
GMS-24	S	Room 153 - Green	JFT - 1/15/24 - 14:16	JFT - 1/16/24 - 24:37
GMS-25	S	Room 153 - Yellow	JFT - 1/15/24 - 14:16	JFT - 1/16/24 - 24:37

BF=Bottle Filling
B=Bubbler

FW=Filtered Water ICE=Ice Machine

S=Classroom/Other Sink WF=Water Fountain



Project Name: Columbia Public Schools Water

Sampling and Reporting Services

Building Name: Gentry Middle School

Project Number: J044517.01

Address: 4200 Bethel Street

Columbia, Missouri

Sample ID	Fixture Type	Location	Flushed By - Date - Time	Sampled By - Date - Time
GMS-26	S	Room 153 - Orange	JFT - 1/15/24 - 14:16	JFT - 1/16/24 - 24:37
GMS-27	S	Room 155	RJH - 1/15/24 - 14:18	JFT - 1/16/24 - 24:38
GMS-28	S	Room 160	RJH - 1/15/24 - 14:22	RJH - 1/16/24 - 24:40
GMS-29	В	Room 160	RJH - 1/15/24 - 14:22	RJH - 1/16/24 - 24:40
GMS-30	S	Room 162	JFT - 1/15/24 - 14:24	JFT - 1/16/24 - 24:41
GMS-31	S	Room 163	RJH - 1/15/24 - 14:27	RJH - 1/16/24 - 24:42
GMS-32	S	Room 164	JFT - 1/15/24 - 14:29	JFT - 1/16/24 - 24:42
GMS-33	S	Room 165 - Left	JFT - 1/15/24 - 14:31	RJH - 1/16/24 -24:43
GMS-34	S	Room 165 - Left Center	JFT - 1/15/24 - 14:31	RJH - 1/16/24 - 24:43
GMS-35	S	Room 165 - Right Center	RJH - 1/15/24 - 14:31	RJH - 1/16/24 - 24:43
GMS-36	S	Room 165 - Right	RJH - 1/15/24 - 14:31	RJH - 1/16/24 - 24:43
GMS-37	S	Room 166	JFT - 1/15/24 - 14:34	JFT - 1/16/24 - 24:44
GMS-38	S	Room 167 - Left	JFT - 1/15/24 - 14:36	JFT - 1/16/24 - 24:46
GMS-39	S Room 167 - Left Center JFT - 1/15/24		JFT - 1/15/24 - 14:36	JFT - 1/16/24 - 24:46
GMS-40	S	S Room 167 - Right Center JFT - 1/15/24 - 14:		JFT - 1/16/24 - 24:46
GMS-41	S	Room 167 - Right	JFT - 1/15/24 - 14:36	JFT - 1/16/24 - 24:46
GMS-42	S	S Room 168 RJH - 1		RJH - 1/16-24 - 24:46
GMS-43	BF	Hallway at Room 101 - Left	RJH - 1/15/24 - 14:47	RJH - 1/16/24 - 24:49
GMS-44	WF	Hallway at Room 101 - Left	RJH - 1/15/24 - 14:47	RJH - 1/16/24 - 24:49
GMS-45	WF	Hallway at Room 101 - Right	RJH - 1/15/24 - 14:47	JFT - 1/16/24 - 24:49
GMS-46	S	Room 101	RJH - 1/15/24 - 14:48	RJH - 1/16/24 - 24:51
GMS-47	В	Room 101	RJH - 1/15/24 - 14:48	RJH - 1/16/24 - 24:51
GMS-48	S	Room 103	RJH - 1/15/24 - 14:49	JFT - 1/16/24 - 24:51
GMS-49	В	Room 103	RJH - 1/15/24 - 14:49	JFT - 1/16/24 - 24:51
GMS-50	S	Room 105	RJH - 1/15/24 - 14:51	RJH - 1/16/24 - 24:52

BF=Bottle Filling
B=Bubbler

FW=Filtered Water ICE=Ice Machine

S=Classroom/Other Sink WF=Water Fountain





Project Name: Columbia Public Schools Water

Sampling and Reporting Services

Building Name: Gentry Middle School

Project Number: J044517.01

Address: 4200 Bethel Street

Columbia, Missouri

Sample ID	Fixture Type	Location	Flushed By - Date - Time	Sampled By - Date - Time
GMS-51	В	Room 105	RJH - 1/15/24 - 14:51	RJH - 1/16/24 - 24:52
GMS-52	S	Room 107	JFT - 1/15/24 - 14:51	JFT - 1/16/24 - 24:52
GMS-53	В	Room 107	JFT - 1/15/24 - 14:51	JFT - 1/16/24 - 24:52
GMS-54	S	Room 106	JFT - 1/15/24 - 14:53	RJH - 1/16/24 - 24:54
GMS-55	S	Room 106	RJH - 1/15/24 - 14:53	RJH - 1/16/24 - 24:54
GMS-56	S	Room 108 - Left	JFT - 1/15/24 - 14:55	JFT - 1/16/24 - 24:55
GMS-57	S	Room 108 - Right	RJH - 1/15/24 - 14:55	JFT - 1/16/24 - 24:55
GMS-58	S	Room 108 - Eyewash	BJL - 1/15/24 - 14:55	BJL - 1/16/24 - 24:55
GMS-59	BF	Hallway at Room 111 - Left	JFT - 1/15/24 - 14:57	RJH - 1/16/24 - 24:58
GMS-60	WF	WF Hallway at Room 111 - Left JFT - 1/15/24 - 14:57		RJH - 1/16/24 - 24:58
GMS-61	WF	WF Hallway at Room 111 - Right RJH - 1/15/2		JFT - 1/16/24 - 24:58
GMS-62	S	Room 111	RJH - 1/15/24 - 14:58	RJH - 1/16/24 - 24:58
GMS-63	В	Room 111	RJH - 1/15/24 - 14:58	RJH - 1/16/24 - 24:58
GMS-64	S	Room 113	JFT - 1/15/24 - 14:59	JFT - 1/1624 - 24:59
GMS-65	В	Room 113	JFT - 1/15/24 - 14:59	JFT - 1/16/24 - 24:59
GMS-66	S	Room 115	RJH - 1/15/24 - 15:00	RJH - 1/16/24 - 1:00
GMS-67	В	Room 115	RJH - 1/15/24 - 15:00	RJH - 1/16/24 - 1:00
GMS-68	S	Room 116 - Left	JFT - 1/15/24 - 15:02	JFT - 1/16/24 - 1:01
GMS-69	В	Room 116 - Right	RJH - 1/15/24 - 15:02	JFT - 1/16/24 - 1:01
GMS-70	S	Room 117	RJH - 1/15/24 - 15:04	RJH - 1/16/24 - 1:02
GMS-71	В	Room 117	RJH - 1/15/24 - 15:04	RJH - 1/16/24 - 1:02
GMS-72	S	S Room 118 - Right JFT - 1/15/24 - 15:05		JFT - 1/16/24 - 1:03
GMS-73	S	Room 118 - Eyewash BJL - 1/15/24 - 15		JFT - 1/16/24 - 1:03
GMS-74	S	Room 218 - Right	RJH - 1/15/24 - 15:08	RJH - 1/16/24 - 1:07
GMS-75	S	Room 218 - Eyewash	JFT - 1/15/24 - 15:08	JFT - 1/16/24 - 1:07

BF=Bottle Filling
B=Bubbler

FW=Filtered Water ICE=Ice Machine

S=Classroom/Other Sink WF=Water Fountain



Project Name: Columbia Public Schools Water

Sampling and Reporting Services

Building Name: Gentry Middle School

Project Number: J044517.01

Address: 4200 Bethel Street

Columbia, Missouri

Sample ID	Fixture Type	Location	Flushed By - Date - Time	Sampled By - Date - Time
GMS-76	S	Room 217	RJH - 1/15/24 - 15:10	RJH - 1/16/24 - 1:08
GMS-77	В	Room 217	RJH - 1/15/24 -15:10	RJH - 1/16/24 - 1:08
GMS-78	S	Room 216 - Left	JFT - 1/15/24 - 15:11	JFT - 1/16/24 - 1:09
GMS-79	S	Room 216 - Right	RJH - 1/15/24 - 15:11	JFT - 1/16/24 - 1:09
GMS-80	S	Room 215	JFT - 1/15/24 - 15:12	RJH - 1/16/24 - 1:10
GMS-81	В	Room 215	JFT - 1/15/24 - 15:12	RJH - 1/16/24 - 1:10
GMS-82	S	Room 213	RJH - 1/15/24 - 15:13	JFT - 1/16/24 - 1:11
GMS-83	В	Room 213	RJH - 1/15/24 - 15:23	JFT - 1/16/24 - 1:11
GMS-84	S	Room 211	JFT - 1/15/24 - 15:14	RJH - 1/16/24 - 1:12
GMS-85	В	Room 211	JFT - 1/15/24 - 15:14	RJH - 1/16/24 - 1:12
GMS-86	BF	Hallway at Room 211 - Left	RJH - 1/15/24 - 15:14	JFT - 1/16/24 - 1:13
GMS-87	WF	Hallway at Room 211 - Left	RJH - 1/15/24 - 15:14	JFT - 1/16/24 - 1:13
GMS-88	WF	Hallway at Room 211 - Right	RJH - 1/15/24 - 15:14	RJH - 1/16/24 - 1:13
GMS-89	BF	Hallway at Room 201 - Left	JFT - 1/15/24 - 15:16	RJH - 1/16/24 - 1:15
GMS-90	WF	Hallway at Room 201 - Left	JFT - 1/15/24 - 15:16	RJH - 1/16/24 - 1:15
GMS-91	WF	Hallway at Room 201 - Right	RJH - 1/15/24 - 15:16	JFT - 1/16/24 - 1:15
GMS-92	S	Room 201	JFT - 1/15/24 - 15:17	RJH - 1/16/24 - 1:16
GMS-93	В	Room 201	JFT - 1/15/24 - 15:17	RJH - 1/16/24 - 1:16
GMS-94	S	Room 203	RJH - 1/15/24 - 15:17	JFT - 1/16/24 - 1:17
GMS-95	В	Room 203	RJH - 1/15/24 - 15:17	JFT - 1/16/24 - 1:17
GMS-96	S Room 205 RJH		RJH - 1/15/24 - 15:18	RJH - 1/16/24 - 1:18
GMS-97	В	Room 205	RJH - 1/15/24 - 15:18	RJH - 1/16/24 - 1:18
GMS-98	S	Room 206 - Left	JFT - 1/15/24 - 15:19	JFT - 1/16/24 - 1:19
GMS-99	S	Room 206 - Right	JFT - 1/15/24 - 15:19	JFT - 1/16/24 - 1:19
GMS-100	S	Room 207	RJH - 1/15/24 - 15:20	RJH - 1/16/24 - 1:20

BF=Bottle Filling
B=Bubbler

FW=Filtered Water ICE=Ice Machine

S=Classroom/Other Sink WF=Water Fountain





Project Name: Columbia Public Schools Water

Sampling and Reporting Services

Building Name: Gentry Middle School

Project Number: J044517.01

Address: 4200 Bethel Street

Columbia, Missouri

Sample ID	Fixture Type	Location	Flushed By - Date - Time	Sampled By - Date - Time
GMS-101	В	Room 207	RJH - 1/15/24 - 15:20	RJH - 1/16/24 - 1:20
GMS-102	S	Room 208 - Left	JFT - 1/15/24 - 15:22	JFT - 1/16/24 - 1:22
GMS-103	S	Room 208 - Right	RJH - 1/15/24 - 15:22	JFT - 1/16/24 - 1:22
GMS-104	S	Room 208 - Eyewash	BJL - 1/15/24 - 15:22	RJH - 1/16/24 - 1:22
GMS-105	BF	Hallway at Rooms 96/97 - Left	JFT - 1/15/24 - 15:25	RJH - 1/16/24 - 1:26
GMS-106	WF	Hallway at Rooms 96/97 - Left	JFT - 1/15/24 - 15:25	RJH - 1/16/24 - 1:26
GMS-107	WF	Hallway at Rooms 96/97 - Right	RJH - 1/15/24 - 15:25	JFT - 1/16/24 - 1:26
GMS-108	S	Room 99 - Left	JFT - 1/15/24 - 15:27	RJH - 1/16/24 - 1:26
GMS-109	S	Room 99 - Right	RJH - 1/15/24 - 15:27	JFT - 1/16/24 - 1:26
GMS-110	S	Office F	JFT - 1/15/24 - 15:29	RJH - 1/16/24 - 1:28
GMS-111	S	S Office H BJL - 1/15/24 - 15:29		JFT - 1/16/24 - 1:28
GMS-112	S	Office I	RJH - 1/15/24 - 15:29	RJH - 1/16/24 - 1:28



APPENDIX C

DRINKING WATER LABORATORY DATA SHEETS

100226

E-10374

05002

05003

9978

Illinois

Kansas

Louisiana

Louisiana

Oklahoma



February 09, 2024

Brad Lohrum Geotechnology, Inc. 11816 Lackland Road St. Louis, MO 63146

TEL: (314) 997-7440 FAX: (314) 997-2067

RE: J044517.01 **WorkOrder:** 24011322

Dear Brad Lohrum:

TEKLAB, INC received 60 samples on 1/19/2024 10:00:00 AM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Patrick Riley

Project Manager (618)344-1004 ex 44

patrickriley@teklabinc.com



Report Contents

http://www.teklabinc.com/

Client: Geotechnology, Inc.

Work Order: 24011322

Client Project: J044517.01

Report Date: 09-Feb-24

This reporting package includes the following:

Cover Letter	1
Report Contents	2
Definitions	3
Case Narrative	5
Accreditations	6
Laboratory Results	7
Receiving Check List	9
Chain of Custody	Appended



Definitions

http://www.teklabinc.com/

Client: Geotechnology, Inc. Work Order: 24011322

Client Project: J044517.01 Report Date: 09-Feb-24

Abbr Definition

- * Analytes on report marked with an asterisk are not NELAP accredited
- CCV Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.
- CRQL A Client Requested Quantitation Limit is a reporting limit that varies according to customer request. The CRQL may not be less than the MDL.
 - DF Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilution factors.
 - DNI Did not ignite
- DUP Laboratory duplicate is a replicate aliquot prepared under the same laboratory conditions and independently analyzed to obtain a measure of precision.
- ICV Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.
- IDPH IL Dept. of Public Health
- LCS Laboratory control sample is a sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes and analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system.
- LCSD Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
- MBLK Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses.
- MDL "The method detection limit is defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results."
- MS Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request).
- MSD Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
- MW Molecular weight
- NC Data is not acceptable for compliance purposes
- ND Not Detected at the Reporting Limit
- NELAP NELAP Accredited
 - PQL Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions.
 - RL The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.
 - RPD Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request).
 - SPK The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes.
 - Surr Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.
 - TIC Tentatively identified compound: Analytes tentatively identified in the sample by using a library search. Only results not in the calibration standard will be reported as tentatively identified compounds. Results for tentatively identified compounds that are not present in the calibration standard, but are assigned a specific chemical name based upon the library search, are calculated using total peak areas from reconstructed ion chromatograms and a response factor of one. The nearest Internal Standard is used for the calculation. The results of any TICs must be considered estimated, and are flagged with a "T". If the estimated result is above the calibration range it is flagged "ET"
- TNTC Too numerous to count (> 200 CFU)



Definitions

http://www.teklabinc.com/

Client: Geotechnology, Inc. Work Order: 24011322

Client Project: J044517.01 Report Date: 09-Feb-24

Qualifiers

- # Unknown hydrocarbon
- C RL shown is a Client Requested Quantitation Limit
- H Holding times exceeded
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
 - S Spike Recovery outside recovery limits
 - X Value exceeds Maximum Contaminant Level

- B Analyte detected in associated Method Blank
- E Value above quantitation range
- I Associated internal standard was outside method criteria
- M Manual Integration used to determine area response
- R RPD outside accepted recovery limits
- T TIC(Tentatively identified compound)



Case Narrative

http://www.teklabinc.com/

Work Order: 24011322

Report Date: 09-Feb-24

Client: Geotechnology, Inc.

Client Project: J044517.01

Cooler Receipt Temp: NA °C

Locations

Collinsville		Collinsville Springfield		Kansas City		
Address	5445 Horseshoe Lake Road Addre		3920 Pintail Dr	Address	8421 Nieman Road	
	Collinsville, IL 62234-7425		Springfield, IL 62711-9415		Lenexa, KS 66214	
Phone	(618) 344-1004	Phone	(217) 698-1004	Phone	(913) 541-1998	
Fax	(618) 344-1005	Fax	(217) 698-1005	Fax	(913) 541-1998	
Email	jhriley@teklabinc.com	Email	KKlostermann@teklabinc.com	Email	jhriley@teklabinc.com	
	Collinsville Air		Chicago			
Address	5445 Horseshoe Lake Road	Address	1319 Butterfield Rd.			
	Collinsville, IL 62234-7425		Downers Grove, IL 60515			
Phone	(618) 344-1004	Phone	(630) 324-6855			
Fax	(618) 344-1005	Fax				
Email EHurley@teklabinc.com		Email	arenner@teklabinc.com			



Accreditations

http://www.teklabinc.com/

Client: Geotechnology, Inc. Work Order: 24011322

Client Project: J044517.01 Report Date: 09-Feb-24

State	Dept	Cert#	NELAP	Exp Date	Lab
Illinois	IEPA	100226	NELAP	1/31/2025	Collinsville
Kansas	KDHE	E-10374	NELAP	4/30/2024	Collinsville
Louisiana	LDEQ	05002	NELAP	6/30/2024	Collinsville
Louisiana	LDEQ	05003	NELAP	6/30/2024	Collinsville
Oklahoma	ODEQ	9978	NELAP	8/31/2024	Collinsville
Arkansas	ADEQ	88-0966		3/14/2024	Collinsville
Illinois	IDPH	17584		5/31/2025	Collinsville
Iowa	IDNR	430		6/1/2024	Collinsville
Kentucky	UST	0073		1/31/2025	Collinsville
Missouri	MDNR	00930		10/31/2026	Collinsville
Missouri	MDNR	930		1/31/2025	Collinsville



Laboratory Results

http://www.teklabinc.com/

Client: Geotechnology, Inc. Work Order: 24011322

Client Project: J044517.01 Report Date: 09-Feb-24

Matrix: DRINKING WATER

Sample ID	Client Sample ID	Certification Qual	RL	Result	Units	DF	Date Analyzed	Date Collected
EPA 600 4.1.4 Lead	4, 200.8 R5.4, META	LS BY ICPMS (TOTAL)						
24011322-001	A SBE-75	NELAP	1.0	1.7	µg/L	1	02/08/2024 4:37	01/15/2024 23:09
24011322-002	A SBE-76	NELAP	1.0	3.1	µg/L	1	02/08/2024 4:41	01/15/2024 23:11
24011322-003	A SBE-77	NELAP	1.0	< 1.0	µg/L	1	02/08/2024 4:45	01/15/2024 23:11
24011322-004	A SBE-78	NELAP	1.0	3.3	µg/L	1	02/08/2024 4:50	01/15/2024 23:11
24011322-005	A SBE-79	NELAP	1.0	< 1.0	µg/L	1	02/08/2024 5:29	01/15/2024 23:11
24011322-006	A CACC-01	NELAP	1.0	1.3	µg/L	1	02/08/2024 4:54	01/15/2024 23:38
24011322-007	A CACC-02	NELAP	1.0	5.3	µg/L	1	02/08/2024 5:24	01/15/2024 23:38
24011322-008	A CACC-03	NELAP	1.0	3.8	µg/L	5	02/06/2024 15:38	01/15/2024 23:40
24011322-009	A CACC-04	NELAP	1.0	3.1	µg/L	5	02/06/2024 15:03	01/15/2024 23:40
24011322-010	A CACC-05	NELAP	1.0	< 1.0	µg/L	1	02/07/2024 20:22	01/15/2024 23:42
24011322-011	A CACC-06	NELAP	1.0	< 1.0	μg/L	1	02/07/2024 20:25	01/15/2024 23:44
24011322-012	A CACC-07	NELAP	1.0	< 1.0	μg/L	1	02/07/2024 20:29	01/15/2024 23:44
24011322-013	A CACC-08	NELAP	1.0	< 1.0	μg/L	1	02/07/2024 20:33	01/15/2024 23:44
24011322-014	A CACC-09	NELAP	1.0	1.1	μg/L	1	02/07/2024 20:36	01/15/2024 23:45
24011322-015	A CACC-10	NELAP	1.0	1.1	μg/L	1	02/07/2024 20:47	01/15/2024 23:45
24011322-016		NELAP	1.0	1.1	μg/L	1	02/07/2024 21:02	01/15/2024 23:46
24011322-017		NELAP	1.0	1.3	μg/L	1	02/07/2024 21:06	01/15/2024 23:46
24011322-018		NELAP	1.0	1.2	μg/L	1	02/07/2024 21:09	01/15/2024 23:50
24011322-019		NELAP	1.0	1.4	μg/L	5	02/06/2024 15:42	01/15/2024 23:50
24011322-020	A CACC-15	NELAP	1.0	1.6	μg/L	1	02/07/2024 21:13	01/15/2024 23:50
24011322-022		NELAP	1.0	< 1.0	μg/L	1	02/07/2024 21:17	01/15/2024 23:52
24011322-023		NELAP	1.0	1.7	μg/L	5	02/06/2024 15:46	01/15/2024 23:52
24011322-024		NELAP	1.0	2.6	μg/L	1	02/07/2024 21:20	01/15/2024 23:52
24011322-025		NELAP	1.0	1.2	μg/L	1	02/07/2024 21:24	01/15/2024 23:52
24011322-026		NELAP	1.0	1.3	μg/L	1	02/07/2024 21:35	01/15/2024 23:53
24011322-027		NELAP	1.0	2.3	μg/L	1	02/07/2024 21:39	01/15/2024 23:53
24011322-028		NELAP	1.0	1.5	μg/L	5	02/06/2024 15:51	01/15/2024 23:53
24011322-029		NELAP	1.0	< 1.0	μg/L	1	02/05/2024 15:11	01/15/2024 23:54
24011322-030		NELAP	1.0	< 1.0	μg/L	1	02/05/2024 15:15	01/15/2024 23:54
24011322-031	A CACC-26	NELAP	1.0	1.6	μg/L	1	02/05/2024 11:54	01/15/2024 23:59
24011322-032		NELAP	1.0	1.6	µg/L	1	02/05/2024 11:57	01/15/2024 23:59
24011322-033		NELAP	1.0	3.1	µg/L	1	02/05/2024 12:01	01/16/2024 0:01
24011322-034		NELAP	1.0	2.9	µg/L	1	02/05/2024 12:05	01/16/2024 0:01
24011322-035		NELAP	1.0	1.5	µg/L	1	02/05/2024 12:08	01/16/2024 0:02
24011322-036		NELAP	1.0	3.7	µg/L	1	02/05/2024 12:19	01/16/2024 0:03
24011322-037		NELAP	1.0	< 1.0	µg/L	1	02/05/2024 12:23	01/16/2024 0:04
24011322-038		NELAP	1.0	2.2	μg/L	1	02/05/2024 12:27	01/16/2024 0:26
24011322-039		NELAP	1.0	1.9	μg/L	1	02/07/2024 19:12	01/16/2024 0:26
24011322-040		NELAP	1.0	< 1.0	μg/L	1	02/07/2024 19:27	01/16/2024 0:26
24011322-041		NELAP	1.0	< 1.0	μg/L	1	02/07/2024 19:30	01/16/2024 0:28
24011322-042		NELAP	1.0	< 1.0	μg/L	1	02/07/2024 19:34	01/16/2024 0:28
24011322-043		NELAP	1.0	1.3	μg/L	1	02/07/2024 19:38	01/16/2024 0:29
24011322-044		NELAP	1.0	< 1.0	μg/L	1	02/07/2024 19:41	01/16/2024 0:29
24011322-051		NELAP	1.0	13.0	μg/L	1	02/07/2024 19:45	01/16/2024 0:37
24011322-052		NELAP	1.0	20.7	μg/L	1	02/07/2024 19:56	01/16/2024 0:37
24011322-053		NELAP	1.0	7.5	μg/L	1	02/07/2024 20:00	01/16/2024 0:37
24011322-054		NELAP	1.0	12.7	μg/L	1	02/07/2024 20:14	01/16/2024 0:38
24011322-055		NELAP	1.0	47.2	μg/L	5	02/08/2024 13:24	01/16/2024 0:40
			1.0	71.2	Ma, ⊢	3	01,00,202 r 10.27	J., . J, EULT U.TU



Laboratory Results

http://www.teklabinc.com/

Client: Geotechnology, Inc. Work Order: 24011322

Client Project: J044517.01 Report Date: 09-Feb-24

Matrix: DRINKING WATER

Sample ID	Client Sample ID	Certification Qual	RL	Result	Units	DF	Date Analyzed	Date Collected
EPA 600 4.1.4	4, 200.8 R5.4, META	LS BY ICPMS (TOTAL)						
Lead								
24011322-056	A GMS-29	NELAP	1.0	5.3	μg/L	1	02/07/2024 20:18	01/16/2024 0:40
24011322-057	A GMS-30	NELAP	1.0	1.0	μg/L	1	02/07/2024 22:30	01/16/2024 0:41
24011322-058	A GMS-31	NELAP	1.0	< 1.0	μg/L	1	02/09/2024 1:21	01/16/2024 0:42
24011322-059	A GMS-32	NELAP	1.0	1.1	μg/L	1	02/09/2024 1:24	01/16/2024 0:42
24011322-060	A GMS-33	NELAP	1.0	< 1.0	μg/L	1	02/09/2024 1:28	01/16/2024 0:43



Receiving Check List

http://www.teklabinc.com/

Work Order: 24011322 Client: Geotechnology, Inc. Client Project: J044517.01 Report Date: 09-Feb-24 Carrier: Employee Received By: MEK Completed by: Reviewed by: Mary E. Kemp On: On: 19-Jan-24 19-Jan-24 Mary E Kemp Ellie Hopkins Extra pages included 0 Pages to follow: Chain of custody Shipping container/cooler in good condition? **V** No 🗔 Not Present Temp °C NA Type of thermal preservation? **V** Ice _ Blue Ice None Dry Ice Chain of custody present? **~** No 🗌 Yes Chain of custody signed when relinquished and received? **~** No 🗌 Yes No 🗹 Chain of custody agrees with sample labels? Yes **~** No 🗌 Samples in proper container/bottle? Yes **~** No 🗌 Sample containers intact? Yes Sufficient sample volume for indicated test? Yes **~** No **~** No \square All samples received within holding time? Yes NA 🗸 Field Lab \square Reported field parameters measured: Yes 🗸 No 🗌 Container/Temp Blank temperature in compliance? When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected. No VOA vials 🗸 Water - at least one vial per sample has zero headspace? Yes 🗌 No 🗀 No TOX containers Water - TOX containers have zero headspace? Yes No 🗌 Yes 🗹 No 🗌 Water - pH acceptable upon receipt? NA 🗹 NPDES/CWA TCN interferences checked/treated in the field? Yes No 🗀 Any No responses must be detailed below or on the COC.

Samples were checked for turbidity and then preserved with nitric acid upon arrival in the laboratory. - MaryKemp - 1/19/2024 11:36:02 AM

Did not receive CACC-16 MEK 1/19/24

pg. 48 of 74 Work order # 24011322

TEKLAB, INC. 5445 Horseshoe Lake Road - Collinsville, IL 62234 - Phone: (618) 344-1004 - Fax: (618) 344-1005

Client:	Geotechnology, L	LC		Samples on:	I ICE BLUE ICE X NO	DICE NA °C LTG#
Address:	11816 Lackland F	Road		Preserved in:	LAB FIELD	FOR LAB USE ONLY
City / State	/ Zip St. Louis, MO 63	3146		Lab Notes	/	ANG CONTRACTOR OF THE CONTRACT
Contact:	Brad Lohrum	Phone	e: (314) 997-7440	Did	not receive CACC	2-16 mer 1/19/24
E-Mail:	blohrum@teamues.com	Fax:		Client Comme		
Are these samples	s known to be involved in l	itigation? If yes, a surcharge	e will apply 📗 Yes 🐰 No	1		
•	s known to be hazardous?		aino Maria utanan mendida			
		met on the requested analys █ No	sis?. If yes, please provide			
Project	Name/Number	Sample Co	ilector's Name	MATRIX	INDICATE	ANALYSIS REQUESTED
J04	4517.01	Brad L	.ohrum	S D ₁	g DW	
Result	s Requested	Billing Instructions	# and Type of Containers	Special Waste Sludge Soil Drinking Water Aqueous	31 ·	
	1-2 Day (100% Surcharge)			ecial Wa Sludge Soil Iking W	Lead	
Other	3 Day (50% Surcharge)		OTHER NaHSO4 MeOH HCL H2SO4 NaOH NAOH NNO3	Vast e e Wat	E200.8	
Lab Use Only	Sample Identification	Date/Time Sampled	8 4 4 4	면 P	7 3.8	
24011322 -001	SBE. 75	1/15/24 23:09	[1]	X	X	
coa	SBE 76	1 23:11	1	X	X	
003	1 77		And	X	X	
004	78		1	X	X	
0.5	79		11	X	X	
ملات	CACC - 01	23:38	1	X	X	
007	CACC-02	4		X	X	
00%	1 03	23:40	1	X	X	
009	O4	+	11	X	X	
4 010	L 05	- 23:42	. 1		X	
	Relinquished By		Date/Time		Received By	Date/Time
Bull	and him	- 1/18/	24		- l leo	1/18/24
	1 LA	1/19)	124 10:00	Mau	Juno	1/19/au 1000
		0			<u> </u>	

pg. 49 of 74 Work order # <u>24011322</u>

TEKLAB, INC. 5445 Horseshoe Lake Road - Collinsville, IL 62234 - Phone: (618) 344-1004 - Fax: (618) 344-1005

				<u> </u>		
Client:	Geotechnology, L	LC			ICE BLUEICE NO	
Address:	11816 Lackland F	Road		Preserved in:	LAB FIELD	FOR LAB USE ONLY
City / State	/ Zip St. Louis, MO 63	146		Lab Notes		
Contact:	Brad Lohrum	Phone:	(314) 997-7440			
E-Mail:	blohrum@teamues.com	Fax:		Client Comme	nts:	
Are these sample:	s known to be involved in li	itigation? If yes, a surcharge wi	ili apply ☐ Yes 🛛 No	_		
·	s known to be hazardous?					
Are there any requi	uired reporting limits to be sent section.	met on the requested analysis: No	?. If yes, please provide			
	Name/Number	Sample Colle	ector's Name	MATRIX	T INDICATE	ANALYSIS REQUESTED
-	l4517.01	Brad Loi			o l	
	s Requested			Spe Spe	Gro	
X Standard	1-2 Day (100% Surcharge)	Dining manachons		cial W Sludg Soil King V	Lead	
Other	3 Day (50% Surcharge)		NaHSO4 MeOH HCL H2SO4 NaOH NAOH NAOH	Special Waste Sludge Soil Drinking Water	W - Lead E200	
Lab Use Only	Sample Identification	Date/Time Sampled		iter ste	E200.8	
110-686110PG	CACC - 06	1/15/24 23:44		X	X	
012	CACC- 07	*Constant			X	
013	1 08		4	X		
014	09	23:45		X	X	
015	10	1		X	X	
016	/(23:46	1	X	X	
017	(2.	4	1	X	X	
018	(3	23:50	1		X	
1 019	14		1	X	X	
020	1					
N VOL	Relinguished By		Date/Time		Received By	Date/Time
Breale		1/18/2		2	1.40	1/18/24
- 7 445 424	0,0 1/2	10 1/15/7	-V 10:00	4M a	1/4/10	1119/24 1000
	- you	V 1117	10,00	May	inay	119/29 1000
<u> </u>						
						1

pg. 50 of 74 Work order # <u>ayo113</u>22

TEKLAB, INC. 5445 Horseshoe Lake Road - Collinsville, IL 62234 - Phone: (618) 344-1004 - Fax: (618) 344-1005

Client:	Geotechnology, L	LC			Sar	nples	on:	33	CE 🔣 BLI	UE ICE	NO IC	Æ		°C	LTG#_	
Address:	11816 Lackland F	Road			Pre	serve	ed in	: 🗵	.AB 📓 FIE	LD		<u>FOR</u>	LAB US	E ONL	<u>(</u>	
City / State	/ Zip St. Louis, MO 63	146			Lab	Note	es									
Contact:	Brad Lohrum	Phone	(314) 99	97-7440												
E-Mail:	blohrum@teamues.com	Fax:			Clie	nt Co	mme	ents	;				:4			
Are these sample:	s known to be involved in li	tigation? If yes, a surcharge	will apply	Yes 🛭 No	1											
	s known to be hazardous?		to te i illi													
Are there any requi imits in the comm	aired reporting limits to be in ent section. \(\text{Yes}\)	met on the requested analysi	is?. If yes, plea	ase provide												
Project	Name/Number	Sample Col	lector's Na	me		ATR	RIX	T		INDIC	ATE A	MALYS	IS REQ	UESTE	D	
.104	4517.01	Brad Lo	ohrum		D		S		DW -							
Result	s Requested	Billing Instructions		of Containers	Drinking Water Aqueous	<u></u>	Special Waste	Groundwater	<u>-</u>							
Standard	1-2 Day (100% Surcharge)	Dining mondono	S	2 Z 0	nking Wa Aqueous	Soil	ial v	ndv	Lead							
Other	3 Day (50% Surcharge)		NaOH HNO3	OTHER NaHSO4 MeOH HCL	Wat vus	ē	Vast	vate	E200.8							
Lab Use Only	Sample Identification	Date/Time Sampled	S - +	n 4 - '	약		ñ		0.8							
34011323	CACC-16	1/15/24 23:50	1		X				X							
022	CACC- 17	23:52	1		X				X							
023	1 18		1		X				X							
034	[9		1		X				Х							
025	20		1		X				Х							
026	21	23:53	1		X				Х							
027	22		1		X				Х							
038	23		1		X				Х							
039	a4	23:54	1		X				Х							
030	1 25	1	1		X				X							
^	Relinguished By		Date/Time	9				Rec	eived By				<u> </u>	Date/Tin	1e	
Budo	u/den	- 1/18/	24			H-	5	h	100			//	18/z	4		
	RALL	1 1/14	124	10:00	7	Ma		16	up_			1110	1/24	100	<u> </u>	,
							0		1							

The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.teklabinc.com for terms and conditions.

BottleOrder:

80481



pg. 51 of 74 Work order # 24011322

TEKLAB, INC. 5445 Horseshoe Lake Road - Collinsville, IL 62234 - Phone: (618) 344-1004 - Fax: (618) 344-1005

Client:	Geotechnology, l	LC			Sam	oles on:	∭ ICE	BLUE ICE	. ₪ NO I	CE	°c	LTG#	
Address:	11816 Lackland I	Road		*******	Pres	erved in	IAB	FIELD		FOR L	AB USE ON	<u>ILY</u>	Congress .
City / State	e / Zip St. Louis, MO 63	3146			Lab	Votes							- Common of the
Contact:	Brad Lohrum	Phone	e: (314) 997-7440)									
E-Mail:	blohrum@teamues.com	Fax:	***************************************		Client	Comme	nts:						
		itigation? If yes, a surcharge	will apply 🗌 Yes	X No									
Are there any re		met on the requested analys X X X X X X X X X X X X X	is?. If yes, please pro	vide									
	t Name/Number		llector's Name		M.	ATRIX		IN	DICATE	ANALYSI	S REQUES	TED	
JC)44517.01	Brad Lo	ohrum		Dri	St	ତ୍ର Wd						
Resu	its Requested 1-2 Day (100% Surcharge)	Billing Instructions			nkin Agu	Slu	- Lead roundv						
Other	3 Day (50% Surcharge)		H2SO4 NaOH HNO3 UNPRES	OTHER NaHSO4	Drinking Water Aqueous	Special Waste Sludge	W - Lead E200.8 Groundwater						
Lab Use Only	Sample Identification	Date/Time Sampled	N W I K	F 2 F	ter	ਿ ਵਿ)0,8 er						
2401323 -031	CACC- 26	1/15/24 23:59	1		X		X						
032	CACL-27	+ +	1		LX		X				And the state of t		
033	3 28	1/16/24 24:01	1		X		X						
034	29	1/1 +	1		X		X						
035	30	24:02	1		X		Х						
0.34	18	24:03	1		X		X						
03	1 32	24:04	1		X		X						
039	3 GMS -01	24:26	1		X		X						
039	1 02	1	1		X		Х						
DHÌ	1 03	<u> </u>	1		X		Х						
	Relinquished By		Date/Time			Λ.	Receive	ed By		/	Date/	Time	
Brade	ly h	1/16/24	<u>t</u>			1-1	Ky				18 124		***************************************
	<u>'\ /~/</u>	Me 1/19/2	24 10:	00	7	May	J 70	<u>uρ</u>		119	J4 10	<u> </u>	
				·				-					

The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.teklabinc.com for terms and conditions.

BottleOrder:

80481



pg. 52 of 74 Work order # 24011322

TEKLAB, INC. 5445 Horseshoe Lake Road - Collinsville, IL 62234 - Phone: (618) 344-1004 - Fax: (618) 344-1005

01:		Geotechnology, LL	С					-						S	am	ple	s c	n:		ICE	■ Bl	.UE K	CE	® N	O IC	E			(°C	Ľ.	TG#		
Client: Address:		11816 Lackland Ro											-			-					FI						OR L	_AB	USI	<u> 10 </u>	1LY			postario de la constanta de la
City / State	/ 7 in	St. Louis, MO 631	46										-			No			_															Special section of
Contact:	Brad L	ohrum			_ Phone		(;	314)	997	-74	40		-			,,,,																		. ~ ruinelige
E-Mail:	blohrur	m@teamues.com			Fax:		_							CI	ion	٠.			nts				-							14				Territor integration
									П		6	7		CII	len	L	UIII	HHE	H	> .														
		n to be involved in liti n to be hazardous?				Will	appi	У	لبيا	Yes	s <u>D</u>	i N	0																					
Are there any requ	sired rep	oorting limits to be m	et on th			is?.	If ye	s, p	leas	e pr	ovide	!																						
		tion. 🗌 Yes 🛛	No										_																					. 40
Project	Name	/Number		Sa	imple Co	llec	tor	's N	lam	1e			L	_	M	ΑT	RI)	<u> </u>			ı	- 1	NDI	CAT	ΕA	MAI	LYS	IS R	EQU	JES	TED			
J04	4517	7.01			Brad L	ohi	un	1							<u> </u>			န	ଜ୍ର	DW				1										
Result	s Req	uested	Billin	ng Inst	ructions		_	_	_		ontair	_	⊒ ?		Drinking Water	ا م	Sludae	ěci.	Groundwater	- Lead				-										
Standard [S	ĮΞ	z	Ŧ	_	MeOH	<u> </u>	OTU			Soil	ם	¥	wbr	ad E														
		ay (50% Surcharge)	_			UNPRES		Q H	SO4	힏	SH S	Name of the Name o	ב ב	ñ	ş	ľ	•	ast	ater	E200.8				-										
Lab Use Only	Sam	ple Identification	Da	te/Time	Sampled	Ľ	ļ				*	<u>*</u>	_	_	4	_		10		\rightarrow			4	4			<u> </u>	-	 	 	∔			
240113224	GM	5-04	1/16	124	24:28	1						┸	1	_	X	\perp				X				\perp				╄	_		+	\bot	_	
ि छात्र	GH	15 -05			+	1						\perp	1		X					X			┵				<u> </u>		_	┷	\bot			
043	ſ	06			24:29	1									X					Х								<u> </u>			\bot			
044		07			+	1									X					X						.,,.,,			<u> </u>		\bot	\bot		
045		08			24:31	1							I	T.	X					Х												\perp		
046		09			+	1						Τ			X					X														
047		20			24:32	1	Γ					T	Τ	į	X					X														
048		اد			1	1									X					Х														
049		22				1									X					Х									\perp					
1 050	1	23	_		24:34	1			П						X					Х												丄		
	Reli	nquished By					Date	/Ti	me				I						Re	ceive	d By					I					Time	}		
Brow	ey	du-	_		1/18/2	24											,			M	4	·					1/	18	: 12	-4				
	IJ	La	W.	_	1119				10	.4	0					M	aı	دم	0	100	ω						1/10	3/2	4	1 C	<u>٥٥ </u>	2		
			7		, ,														9		1													
													1				********									T								

The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.teklabinc.com for terms and conditions.

BottleOrder: 80481

pg. 53 of 74 Work order # <u>24011322</u>

TEKLAB, INC. 5445 Horseshoe Lake Road - Collinsville, IL 62234 - Phone: (618) 344-1004 - Fax: (618) 344-1005

At		Geotechnology, LI	_C										T	Sar	nnl	25.0	on:	鑁	ICE	330	BLUE	ICE		NO I	CE			YUMIN	°c		LTG#	ŧ	
Client:		11816 Lackland R			***************************************	~~~	••••••						- 8						LAB							OR I	LAB	 3 US	E C				An-english
Address: City / State	/ Zin												- 6	Lab				• —		_											_		40000
City / State	Brad L				Phone	·	(3	314)	997	-744	10		- ┃	L.,-CI N.	, 140		•			•													1.00
E-Mail:	blohrur	n@teamues.com			Fax:		_						` -	N 15				4 .							ř.	• •							
									<u></u>				_	Clie	nt (on	ıme	ents	5:														
		to be involved in lit to be hazardous?				will	appi	У	Ц	Yes	X	No	'																				
Are there any requ	ired rep	orting limits to be n	net on the			is?.	If ye	s, p	lease	e pro	ovide																						
limits in the comm-	ent sec	tion. Yes	No																					· · · · ·									
Project I	Name	/Number		Sam	pie Co	lec	tor	s l	lam	1e			匚		VIA.	RI	X					IND	ICA	TE.	ANA	LYS	SIS F	₹EQ	UE	STE	:D		
J04	4517	'.01		E	3rad Le	ohr	un	1						Dr			ည	ଜ	DW											·			
Results	s Req	uested	Billing	ı İnstru	ctions	#	and	Туј	pe of	f Co	ntain	ers]≵	Drinking Water		SI	Special Waste	Groundwater	<u>-</u>														
Standard			_			Ş	l_	z	┰	_	< 2	0	60	ng l	Soil	Sludge	al v	ndv	Lead														
Other	3 Da	ay (50% Surcharge)				烹	HNO3	laOH	Š	된	MeOH	Ī	Aqueous	Wat		е	/ast	/ate	E200.														
Lab Use Only	Sam	ple Identification	Date	/Time Sa	ampled	S					- 14			<u>e</u> r	<u> </u>		æ	7	0.8								┸						
240/1322 -05/	GW	15-24	1/16	124 3	24:37	1								Х					Х								$oldsymbol{ol}}}}}}}}}}}}}}}}}$		\perp				
052	GV	US-25		,		1								Х					Х										\bot				
053	1	Z.b		-		1								X					Х														
054		27		2	4:38	1			П					X					Х									丄					
055		25		20	4:40	1								X					Х														
056		29			+	1								X					Х						<u> </u>								
057		20		2	4:41	1								X					Х														
058		<u>3</u> 1		20	1:42	1								X					Х									\perp	\perp				
059		32			4	1							П	Х					Х														
Oieo	1	· 33		1 2	4:43	1				1			T	Х					Х								T						
^	Relir	nquished By			مير ۽ - ا		ate	/Ti	me		l		Ĺ	٠	<u>-</u> -			Re	ceive	ed By	, <u> </u>			*	Ί			أسطم	Date	e/Tin	ne		
Pred Our	0			I	1812	4												K	-12	4						1/	18	>/2	:4				
	J <u> </u>	De VII	M	. /	7 7 1		/		10	16	00			•	١	M	و وسرا		J-N	12	$\Lambda \cap$					1/19	1/24	- 	((200	0		
		7	- 1/	1	1 ()				•				T			<u> </u>		کم)	- 0 -0	4												
			•										\vdash											.,	\top			***************************************					

The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.teklabinc.com for terms and conditions.

BottleOrder: 80481

81



February 13, 2024

Brad Lohrum Geotechnology, Inc. 11816 Lackland Road St. Louis, MO 63146

TEL: (314) 997-7440 FAX: (314) 997-2067

RE: J044517.01 **WorkOrder:** 24011360

Dear Brad Lohrum:

TEKLAB, INC received 16 samples on 1/19/2024 1:00:00 PM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Patrick Riley Project Manager

(618)344-1004 ex 44

patrickriley@teklabinc.com



Illinois 100226 Kansas E-10374 Louisiana 05002 Louisiana 05003 Oklahoma 9978



Report Contents

http://www.teklabinc.com/

Client: Geotechnology, Inc.

Work Order: 24011360

Client Project: J044517.01

Report Date: 13-Feb-24

This reporting package includes the following:

Cover Letter	1
Report Contents	2
Definitions	3
Case Narrative	5
Accreditations	6
Laboratory Results	7
Receiving Check List	8
Chain of Custody	Appended



Definitions

http://www.teklabinc.com/

Client: Geotechnology, Inc.

Work Order: 24011360

Client Project: J044517.01 Report Date: 13-Feb-24

Abbr Definition

- * Analytes on report marked with an asterisk are not NELAP accredited
- CCV Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.
- CRQL A Client Requested Quantitation Limit is a reporting limit that varies according to customer request. The CRQL may not be less than the MDL.
 - DF Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilution factors.
 - DNI Did not ignite
- DUP Laboratory duplicate is a replicate aliquot prepared under the same laboratory conditions and independently analyzed to obtain a measure of precision.
- ICV Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.
- IDPH IL Dept. of Public Health
- LCS Laboratory control sample is a sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes and analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system.
- LCSD Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
- MBLK Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses.
- MDL "The method detection limit is defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results."
- MS Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request).
- MSD Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
- MW Molecular weight
- NC Data is not acceptable for compliance purposes
- ND Not Detected at the Reporting Limit
- NELAP NELAP Accredited
 - PQL Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions.
 - RL The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.
 - RPD Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request).
 - SPK The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes.
 - Surr Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.
 - TIC Tentatively identified compound: Analytes tentatively identified in the sample by using a library search. Only results not in the calibration standard will be reported as tentatively identified compounds. Results for tentatively identified compounds that are not present in the calibration standard, but are assigned a specific chemical name based upon the library search, are calculated using total peak areas from reconstructed ion chromatograms and a response factor of one. The nearest Internal Standard is used for the calculation. The results of any TICs must be considered estimated, and are flagged with a "T". If the estimated result is above the calibration range it is flagged "ET"
- TNTC Too numerous to count (> 200 CFU)



Definitions

http://www.teklabinc.com/

Client: Geotechnology, Inc. Work Order: 24011360

Client Project: J044517.01 Report Date: 13-Feb-24

Qualifiers

- B Analyte detected in associated Method Blank
- E Value above quantitation range
- I Associated internal standard was outside method criteria
- M Manual Integration used to determine area response
- R RPD outside accepted recovery limits
- T TIC(Tentatively identified compound)

- # Unknown hydrocarbon
- C RL shown is a Client Requested Quantitation Limit
- H Holding times exceeded
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
 - S Spike Recovery outside recovery limits
- X Value exceeds Maximum Contaminant Level



Case Narrative

http://www.teklabinc.com/

Work Order: 24011360

Report Date: 13-Feb-24

Client: Geotechnology, Inc.

Client Project: J044517.01

Cooler Receipt Temp: N/A °C

Locations

	Collinsville		Springfield		Kansas City
Address	5445 Horseshoe Lake Road	Address	3920 Pintail Dr	Address	8421 Nieman Road
	Collinsville, IL 62234-7425		Springfield, IL 62711-9415		Lenexa, KS 66214
Phone	(618) 344-1004	Phone	(217) 698-1004	Phone	(913) 541-1998
Fax	(618) 344-1005	Fax	(217) 698-1005	Fax	(913) 541-1998
Email	jhriley@teklabinc.com	Email	KKlostermann@teklabinc.com	Email	jhriley@teklabinc.com
	Collinsville Air	_	Chicago		
Address	5445 Horseshoe Lake Road	Address	1319 Butterfield Rd.		
	Collinsville, IL 62234-7425		Downers Grove, IL 60515		
Phone	(618) 344-1004	Phone	(630) 324-6855		
Fax	(618) 344-1005	Fax			
Email	EHurley@teklabinc.com	Email	arenner@teklabinc.com		



Accreditations

http://www.teklabinc.com/

Client: Geotechnology, Inc. Work Order: 24011360

Client Project: J044517.01 Report Date: 13-Feb-24

State	Dept	Cert #	NELAP	Exp Date	Lab
Illinois	IEPA	100226	NELAP	1/31/2025	Collinsville
Kansas	KDHE	E-10374	NELAP	4/30/2024	Collinsville
Louisiana	LDEQ	05002	NELAP	6/30/2024	Collinsville
Louisiana	LDEQ	05003	NELAP	6/30/2024	Collinsville
Oklahoma	ODEQ	9978	NELAP	8/31/2024	Collinsville
Arkansas	ADEQ	88-0966		3/14/2024	Collinsville
Illinois	IDPH	17584		5/31/2025	Collinsville
Iowa	IDNR	430		6/1/2024	Collinsville
Kentucky	UST	0073		1/31/2025	Collinsville
Missouri	MDNR	00930		10/31/2026	Collinsville
Missouri	MDNR	930		1/31/2025	Collinsville



Laboratory Results

http://www.teklabinc.com/

Client: Geotechnology, Inc. Work Order: 24011360

Client Project: J044517.01 Report Date: 13-Feb-24

Matrix: DRINKING WATER

Sample ID	Client Sample ID	Certification Qual	RL	Result	Units	DF	Date Analyzed	Date Collected
EPA 600 4.1.4	4, 200.8 R5.4, META	LS BY ICPMS (TOTAL)						
Lead								
24011360-001	A GMS-08	NELAP	1.0	< 1.0	μg/L	1	02/05/2024 15:19	01/16/2024 0:29
24011360-002	A GMS-09	NELAP	1.0	< 1.0	μg/L	1	02/05/2024 15:22	01/16/2024 0:29
24011360-003	A GMS-10	NELAP	1.0	< 1.0	μg/L	1	02/05/2024 15:26	01/16/2024 0:31
24011360-004	A GMS-11	NELAP	1.0	< 1.0	μg/L	1	02/05/2024 15:30	01/16/2024 0:31
24011360-005	A GMS-12	NELAP	1.0	< 1.0	μg/L	1	02/05/2024 15:33	01/16/2024 0:32
24011360-006	A GMS-13	NELAP	1.0	< 1.0	μg/L	1	02/05/2024 15:55	01/16/2024 0:32
24011360-007	A GMS-14	NELAP	1.0	< 1.0	μg/L	1	02/05/2024 15:59	01/16/2024 0:32
24011360-008	A GMS-15	NELAP	1.0	70.8	μg/L	5	02/13/2024 10:21	01/16/2024 0:34
24011360-009	A GMS-16	NELAP	1.0	4.9	μg/L	5	02/13/2024 10:51	01/16/2024 0:34
24011360-010	A GMS-17	NELAP	1.0	28.2	μg/L	5	02/13/2024 10:26	01/16/2024 0:34
24011360-011	A GMS-18	NELAP	1.0	< 1.0	μg/L	5	02/13/2024 10:30	01/16/2024 0:34
24011360-012	A GMS-19	NELAP	1.0	5.1	μg/L	1	02/05/2024 16:03	01/16/2024 0:35
24011360-013	A GMS-20	NELAP	1.0	4.7	μg/L	1	02/05/2024 16:06	01/16/2024 0:35
24011360-014	A GMS-21	NELAP	1.0	< 1.0	μg/L	5	02/13/2024 10:34	01/16/2024 0:37
24011360-015	A GMS-22	NELAP	1.0	16.1	μg/L	5	02/13/2024 10:38	01/16/2024 0:37
24011360-016	A GMS-23	NELAP	1.0	14.2	μg/L	5	02/13/2024 10:43	01/16/2024 0:37



Receiving Check List

http://www.teklabinc.com/

Work Order: 24011360 Client: Geotechnology, Inc. Client Project: J044517.01 Report Date: 13-Feb-24 Carrier: Employee Received By: LM Completed by: Ontoer Oblacce Reviewed by: On: On: 19-Jan-24 19-Jan-24 Amber Dilallo Ellie Hopkins Extra pages included 0 Pages to follow: Chain of custody Shipping container/cooler in good condition? **V** No 🗔 Not Present Temp °C N/A Type of thermal preservation? **~** Ice _ Blue Ice None Dry Ice Chain of custody present? **~** No L Yes Chain of custody signed when relinquished and received? **~** Yes No L **~** Chain of custody agrees with sample labels? No 🗀 Yes **~** No 🗌 Samples in proper container/bottle? Yes **V** No 🗌 Sample containers intact? Yes Yes **~** No Sufficient sample volume for indicated test? **~** No \square All samples received within holding time? Yes NA 🗸 Field Lab \square Reported field parameters measured: Yes 🗸 No 🗌 Container/Temp Blank temperature in compliance? When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected. Water - at least one vial per sample has zero headspace? Yes 🗌 No 🗀 No VOA vials 🗸 No TOX containers Water - TOX containers have zero headspace? Yes No 🗌 Yes 🗹 No 🗌 Water - pH acceptable upon receipt? NA 🗸 NPDES/CWA TCN interferences checked/treated in the field? Yes No 🗀

Samples were checked for turbidity and then preserved with nitric acid upon arrival in the laboratory. - amberdilallo - 1/19/2024 2:04:09 PM

Any No responses must be detailed below or on the COC.

pg. | of \mathbb{Z} Work order # 2401300

TEKLAB, INC. 5445 Horseshoe Lake Road - Collinsville, IL 62234 - Phone: (618) 344-1004 - Fax: (618) 344-1005

	Geotechnology, I	1C	<u> </u>								ß	am	nle	nn	·)	e ic	€∭	8 80	JE ICE	ें	NOK	连线。	. Klista	k//A	۰,		oi TC	4 2000	asse Se	24.5
Client: Address:	11816 Lackland I									-	ء ا	me	otvi Miss	 	ī		B	FIE	LD	~	参多	FC	OR L	AB L	_ JSE	ONI	Ϋ́	سکستو سرمار گان	<u>sannerii</u> Wasi -	2117) 221
						····				-														liv			200 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)			
City / State	Brad Lohrum		Phone		(31	4) 9	97-74	40		-	-	au i	1400	=> \	لك) (1	g(e)	PKCV N	/ LUC	C) E)	3T.4	ur c) y					
Contact.	biohrum@teamues.com		_ Fnone _ Fax:	·.		····				-		, e e		District.	9.9	F-1920	George Golden		9-1927		G(19)	grade S	1000	3530	Saviget.	Same		G340		1013
			_ 							_	CI	ien	t Co	mm	en	ıts:														
•	s known to be involved in its known to be hazardous?	-	-	will a	ipply	1] Ye	s	XI N	lo																				
	s known to be nazaroous? ired reporting limits to be			is?. I	f ves	. ple:	ase p	rovic	le																					
	ent section. Yes				•		•				l																			
Project	Name/Number	S	ample Col	lec	tor's	Na	ıme			T		M	ATI	₹IX					IN	DICA	TE	MA	LYSI	IS RE	QU	EST	ED			
J04	4517.01		Brad Lo	ohr	um					ſ		٥		J			DW-													
Results	s Requested	Billing Ins				Гуре	of C	onta	iner	1	ş	Drinking Water	ı	Special Waste	Clouidwater	2	_		ľ											
Standard	1-2 Day (100% Surcharge)	Dining ino	er dodono	c	_		_		z	\mathbf{J}	ue	2	Soil				ead													
Other	3 Day (50% Surcharge)			NPR	충		of C	8	돐	Ĭ	ž į	Sa a	_ 6	Nas Nas	. 40		E200.8													
Lab Use Only	•	Date/Time	e Sampled	ES	3			I	2	"		ब		ie	5	4	8													
2401P <u>US</u>	GMG-08	1/16/24	24:29	1								X				;	X			L										
COL.	GMS-09	,	+	1								X			ı		X													
003	[[0		24:3	1						1		X			Τ	7	X													
(0)4	((+	1	П	1	\top					X		T	T	7	X													
035	12		24:32	1	Ħ	\top	1			1		X	1	十	T		xT													
000	(3		1	1		†	\top			1		\mathbf{x}	\top	+	†		x l	\top	1		<u> </u>		 			1	一			
	14			1	H	十	十	Н	\dashv	1		X	_	十	T	1	xT	十	T	-	m				<u> </u>	<u> </u>	T			
(0)	 		24:34	1	\vdash	+	╁	╁	\dashv	1	\dashv	X	十	╅	╁	-	x	╅	1	╁	\vdash	\vdash	\vdash			1	 			
00k	15		<u> </u>	1	\vdash		+-		\dashv	┨		X	\dashv	╁	╁		<u> </u>		+	\vdash	╫	-	┼	 	╫	\vdash	-		\square	_
009	16	 		1	┞╌┼	+	╀		-	-		-	\dashv	+	+			+	+-	-	-	┡	-	-	\vdash	十	┼	<u> </u>	-	
010	17			Т.						4		X		ļ			X eived	Dv				<u></u>		Щ		ate/T	1000			
7 1	Relinquished By Date/Time September 1/19/24 13:00												Ţ		かつ	nec	eived	Бу						11	19/		me	15	300	- 3
- 5-600	- Brown 1/19/24 15.00											-		700	1 1	V	_					+			17/6	<u> </u>		1 2	/W	
	- ¥		1							4											·	+		***************************************						—
	w		<u> </u>							4			<u></u>									+-								
			1							- 1												1								

The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.teklabinc.com for terms and conditions.

BottleOrder.



pg. 2 of 2 Work order # 240113(0)

TEKLAB, INC. 5445 Horseshoe Lake Road - Collinsville, IL 62234 - Phone: (618) 344-1004 - Fax: (618) 344-1005

Client:	Geotechnology,	ЦС									T	San	nple	<u>.</u>	n:		ICE /		BLU	E ICE	A	NO IC	Æ	eggini Tarih	SARSI:	^^(C in	LTG	٠ اين	part of the second	
Address:	11816 Lackland					_						Pre:	sen	/ed	in:		LAB		FIEL	D.	1		E	OR L	AB L	JSE	ONL	Y	4 21433	4 <u>%</u> -	2.775
City / State	/ Zip St. Louis, MO 6	3146									1	Lab	No	tes	Ŕż			75. 1473.	117.	on National National	gagrafi magail agaras			94.		5 442	r ett.	ارو. فالي د			
Contact:	Brad Lohrum		_ Phone): ::	(3	14)	997-7	7440		_		i Gaptar					的写 数数	定义 影的		risi. Pana	المستريخ المرافقين			1000 1000	72,62				us/elle		2,733
E-Mail: .	biohrum@teamues.com		Fax:								C	lier	ıt C	on	ıme	nts	::	- 16 ii iii -													
	s known to be involved in		, a surcharge \	will a	арріу	,	□ Y	/es	X	No	1																				
	known to be hazardous		No																												
	ired reporting limits to be ent section. Yes		uested analysi:	s?.:	ii ye:	s, ph	ease	; bio	vide																						
	Name/Number		Sample Col	lec	tor'	s N	ame	e			十		MAT	RL	X					IN)ICA	TE /	NA!	LYS	IS RE	EQU	EST	ED			
-	14517.01		Brad Lo	ohr	um	Ļ				J	Γ	ō			S	6	DW-														
Results	s Requested	Billing Ins	structions	_			e of	Con	taine	51.E	à	Drinking Water		2	Special Waste	Groundwater		į						-							
f	1-2 Day (100% Surcharge)		1	8 :		2	ΞŢ	_ =	Z	0	ueo	ng	Soil	Sludge	8		Lead														
	3 Day (50% Surcharge)			묽	NO3	휘	H2S04	뒫혛	SET	OTHER	Š	Wat		ō	Vast	vate	E200.8														
Lab Use Only	Sample Identification	n Date/Tim	ne Sampled	Ľ	\prod	_	1	Ţ	1	<u>ل</u>	<u>_</u>		Щ		e											<u> </u>	<u> </u>				
240113(40)	GMS- 18	1/16/24	1 29:34	1	Ц	\perp		1		<u> </u>	L	X					X					<u> </u>		<u></u>							
012	GWS-19	1	24:35	1	Ц			\perp		1	L	X			Ш		Х					<u></u>	<u> </u>				<u> </u>				
n3.	1 20		+	1	Ш		oxed		1		L	X	ļ			$ldsymbol{ld}}}}}}$	Х						<u></u>	1							
04	21		24:37	1	Ц	\perp			1	\perp	L	X					Х										_				
015	22			1				\int		L	L	Х	 				Х									<u> </u>					
عات	1 23			1				\int		Ĺ	Ĺ	X					Х														
				1					\int	\prod		X	\prod				Х								L						
				1				T	T	Γ	Γ	X	Γ				Х								$oldsymbol{ol}}}}}}}}}}}}}}}$						
				1				T	T	Γ	Γ	X	Γ				Х														to Control
	-			1				T	I	Γ		Х	L				Х														
	Relinquished By				Date			_			匚					Re	ceiv	ed B	ly				Ţ				ate/T				
Busly	(18hm		1/19/	24	<u>†</u>	i	13:	<u>: 0(</u>	<u> </u>		_				\geq	4	M	n	م	7			_	_1/1	19/7	24		13	0)	
	/		<u></u>																				\perp								
											_																				
																							1								

The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.teklabinc.com for terms and conditions.

BottleOrder:

80481



100226

E-10374

05002

05003

9978

Illinois

Kansas

Louisiana

Louisiana

Oklahoma



February 14, 2024

Brad Lohrum Geotechnology, Inc. 11816 Lackland Road St. Louis, MO 63146

TEL: (314) 997-7440 FAX: (314) 997-2067

RE: J044517.01 **WorkOrder:** 24011316

Dear Brad Lohrum:

TEKLAB, INC received 60 samples on 1/19/2024 10:12:00 AM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Shelly A. Hennessy

Shelly A Hennessy

Project Manager

(618)344-1004 ex 36

SHennessy@teklabinc.com



Report Contents

http://www.teklabinc.com/

Client: Geotechnology, Inc.

Work Order: 24011316

Client Project: J044517.01

Report Date: 14-Feb-24

This reporting package includes the following:

Cover Letter	1
Report Contents	2
Definitions	3
Case Narrative	5
Accreditations	6
Laboratory Results	7
Receiving Check List	9
Chain of Custody	Appended



Definitions

http://www.teklabinc.com/

Client: Geotechnology, Inc.

Work Order: 24011316

Client Project: J044517.01 Report Date: 14-Feb-24

Abbr Definition

- * Analytes on report marked with an asterisk are not NELAP accredited
- CCV Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.
- CRQL A Client Requested Quantitation Limit is a reporting limit that varies according to customer request. The CRQL may not be less than the MDL.
 - DF Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilution factors.
 - DNI Did not ignite
- DUP Laboratory duplicate is a replicate aliquot prepared under the same laboratory conditions and independently analyzed to obtain a measure of precision.
- ICV Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.
- IDPH IL Dept. of Public Health
- LCS Laboratory control sample is a sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes and analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system.
- LCSD Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
- MBLK Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses.
- MDL "The method detection limit is defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results."
- MS Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request).
- MSD Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
- MW Molecular weight
- NC Data is not acceptable for compliance purposes
- ND Not Detected at the Reporting Limit
- NELAP NELAP Accredited
 - PQL Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions.
 - RL The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.
 - RPD Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request).
 - SPK The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes.
 - Surr Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.
 - TIC Tentatively identified compound: Analytes tentatively identified in the sample by using a library search. Only results not in the calibration standard will be reported as tentatively identified compounds. Results for tentatively identified compounds that are not present in the calibration standard, but are assigned a specific chemical name based upon the library search, are calculated using total peak areas from reconstructed ion chromatograms and a response factor of one. The nearest Internal Standard is used for the calculation. The results of any TICs must be considered estimated, and are flagged with a "T". If the estimated result is above the calibration range it is flagged "ET"
- TNTC Too numerous to count (> 200 CFU)



Definitions

http://www.teklabinc.com/

Client: Geotechnology, Inc. Work Order: 24011316

Client Project: J044517.01 Report Date: 14-Feb-24

Qualifiers

- B Analyte detected in associated Method Blank
- E Value above quantitation range
- I Associated internal standard was outside method criteria
- M Manual Integration used to determine area response
- R RPD outside accepted recovery limits
- T TIC(Tentatively identified compound)

- # Unknown hydrocarbon
- RL shown is a Client Requested Quantitation Limit
- H Holding times exceeded
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
 - S Spike Recovery outside recovery limits
 - X Value exceeds Maximum Contaminant Level



Case Narrative

http://www.teklabinc.com/

Work Order: 24011316

Report Date: 14-Feb-24

Client: Geotechnology, Inc.

Cooler Receipt Temp: N/A °C

Client Project: J044517.01

Locations

	Collinsville		Springfield		Kansas City
Address	5445 Horseshoe Lake Road	Address	3920 Pintail Dr	Address	8421 Nieman Road
	Collinsville, IL 62234-7425		Springfield, IL 62711-9415		Lenexa, KS 66214
Phone	(618) 344-1004	Phone	(217) 698-1004	Phone	(913) 541-1998
Fax	(618) 344-1005	Fax	(217) 698-1005	Fax	(913) 541-1998
Email	jhriley@teklabinc.com	Email	KKlostermann@teklabinc.com	Email	jhriley@teklabinc.com
	Collinsville Air		Chicago		
Address	5445 Horseshoe Lake Road	Address	1319 Butterfield Rd.		
	Collinsville, IL 62234-7425		Downers Grove, IL 60515		
Phone	(618) 344-1004	Phone	(630) 324-6855		
Fax	(618) 344-1005	Fax			
Email	EHurley@teklabinc.com	Email	arenner@teklabinc.com		



Accreditations

http://www.teklabinc.com/

Client: Geotechnology, Inc. Work Order: 24011316

Client Project: J044517.01 Report Date: 14-Feb-24

State	Dept	Cert #	NELAP	Exp Date	Lab
Illinois	IEPA	100226	NELAP	1/31/2025	Collinsville
Kansas	KDHE	E-10374	NELAP	4/30/2024	Collinsville
Louisiana	LDEQ	05002	NELAP	6/30/2024	Collinsville
Louisiana	LDEQ	05003	NELAP	6/30/2024	Collinsville
Oklahoma	ODEQ	9978	NELAP	8/31/2024	Collinsville
Arkansas	ADEQ	88-0966		3/14/2024	Collinsville
Illinois	IDPH	17584		5/31/2025	Collinsville
Iowa	IDNR	430		6/1/2024	Collinsville
Kentucky	UST	0073		1/31/2025	Collinsville
Missouri	MDNR	00930		10/31/2026	Collinsville
Missouri	MDNR	930		1/31/2025	Collinsville



Laboratory Results

http://www.teklabinc.com/

Client: Geotechnology, Inc. Work Order: 24011316

Client Project: J044517.01 Report Date: 14-Feb-24

Matrix: DRINKING WATER

	Client Sample ID	Certification Qual	RL	Result	Units	DF	Date Analyzed	Date Collected
_		LS BY ICPMS (TOTAL)					•	
Lead								
24011316-001A	GMS-34	NELAP	1.0	< 1.0	μg/L	1	02/13/2024 19:09	01/16/2024 0:43
24011316-002A	GMS-35	NELAP	1.0	1.1	μg/L	1	02/13/2024 19:13	01/16/2024 0:43
24011316-003A	GMS-36	NELAP	1.0	< 1.0	μg/L	1	02/13/2024 19:35	01/16/2024 0:43
24011316-004A	GMS-37	NELAP	1.0	< 1.0	μg/L	1	02/13/2024 19:39	01/16/2024 0:44
24011316-005A	GMS-38	NELAP	1.0	< 1.0	μg/L	1	02/13/2024 19:42	01/16/2024 0:46
24011316-006A	GMS-39	NELAP	1.0	10.0	μg/L	1	02/13/2024 19:46	01/16/2024 0:46
24011316-007A	GMS-40	NELAP	1.0	1.3	μg/L	5	02/14/2024 8:19	01/16/2024 0:46
24011316-008A	GMS-41	NELAP	1.0	2.2	μg/L	1	02/13/2024 19:50	01/16/2024 0:46
24011316-009A	GMS-42	NELAP	1.0	2.0	μg/L	1	02/13/2024 19:53	01/16/2024 0:46
24011316-010A	GMS-43	NELAP	1.0	< 1.0	μg/L	1	02/13/2024 19:57	01/16/2024 0:49
24011316-011A	GMS-44	NELAP	1.0	< 1.0	μg/L	1	02/13/2024 20:01	01/16/2024 0:49
24011316-012A	GMS-45	NELAP	1.0	< 1.0	μg/L	1	02/13/2024 20:04	01/16/2024 0:49
24011316-013A	GMS-46	NELAP	1.0	19.3	μg/L	1	02/14/2024 9:19	01/16/2024 0:51
24011316-014A	GMS-47	NELAP	1.0	< 1.0	μg/L	1	02/14/2024 10:41	01/16/2024 0:51
24011316-015A	GMS-48	NELAP	1.0	4.2	μg/L	1	02/14/2024 9:23	01/16/2024 0:51
24011316-016A	GMS-49	NELAP	1.0	< 1.0	μg/L	1	02/14/2024 9:28	01/16/2024 0:51
24011316-017A	GMS-50	NELAP	1.0	8.1	μg/L	5	02/14/2024 8:23	01/16/2024 0:52
24011316-018A	GMS-51	NELAP	1.0	< 1.0	μg/L	5	02/14/2024 8:27	01/16/2024 0:52
24011316-019A	GMS-52	NELAP	1.0	37.1	μg/L	5	02/14/2024 8:32	01/16/2024 0:52
24011316-020A	GMS-53	NELAP	1.0	< 1.0	μg/L	1	02/14/2024 9:32	01/16/2024 0:52
24011316-021A	GMS-54	NELAP	1.0	4.1	μg/L	1	02/14/2024 9:36	01/16/2024 0:54
24011316-022A	GMS-55	NELAP	1.0	26.5	μg/L	1	02/14/2024 9:41	01/16/2024 0:54
24011316-023A	GMS-56	NELAP	1.0	17.6	μg/L	1	02/14/2024 10:15	01/16/2024 0:55
24011316-024A	GMS-57	NELAP	1.0	20.2	μg/L	1	02/14/2024 10:20	01/16/2024 0:55
24011316-025A	GMS-58	NELAP	1.0	8.2	μg/L	1	02/14/2024 10:24	01/16/2024 0:55
24011316-026A	GMS-59	NELAP	1.0	< 1.0	μg/L	1	02/14/2024 10:28	01/16/2024 0:58
24011316-027A	GMS-60	NELAP	1.0	< 1.0	μg/L	1	02/14/2024 10:33	01/16/2024 0:58
24011316-028A	GMS-61	NELAP	1.0	< 1.0	μg/L	1	02/14/2024 11:33	01/16/2024 0:58
24011316-029A	GMS-62	NELAP	1.0	33.3	μg/L	1	02/14/2024 10:37	01/16/2024 0:58
24011316-030A	GMS-63	NELAP	1.0	< 1.0	μg/L	1	02/14/2024 11:12	01/16/2024 0:58
24011316-031A	GMS-64	NELAP	1.0	17.1	μg/L	1	02/14/2024 11:16	01/16/2024 0:59
24011316-032A	GMS-65	NELAP	1.0	< 1.0	μg/L	1	02/13/2024 22:02	01/16/2024 0:59
24011316-033A	GMS-66	NELAP	1.0	12.0	μg/L	1	02/13/2024 22:05	01/16/2024 1:00
24011316-034A	GMS-67	NELAP	1.0	< 1.0	μg/L	1	02/13/2024 22:09	01/16/2024 1:00
24011316-035A	GMS-68	NELAP	1.0	18.0	μg/L	1	02/13/2024 22:13	01/16/2024 1:01
24011316-036A	GMS-69	NELAP	1.0	30.2	μg/L	1	02/13/2024 22:24	01/16/2024 1:01
24011316-037A	GMS-70	NELAP	1.0	16.3	μg/L	1	02/13/2024 22:27	01/16/2024 1:02
24011316-038A	GMS-71	NELAP	1.0	< 1.0	μg/L	1	02/13/2024 22:31	01/16/2024 1:02
24011316-039A	GMS-72	NELAP	1.0	32.1	μg/L	1	02/13/2024 22:35	01/16/2024 1:03
24011316-040A	GMS-73	NELAP	1.0	14.2	μg/L	1	02/13/2024 22:49	01/16/2024 1:03
24011316-041A	GMS-74	NELAP	1.0	42.4	μg/L	1	02/13/2024 22:53	01/16/2024 1:07
24011316-042A	GMS-75	NELAP	1.0	33.1	μg/L	1	02/13/2024 22:57	01/16/2024 1:07
24011316-043A	GMS-76	NELAP	1.0	23.7	μg/L	5	02/14/2024 8:36	01/16/2024 1:08
24011316-044A	GMS-77	NELAP	1.0	< 1.0	μg/L	1	02/13/2024 23:00	01/16/2024 1:08
24011316-045A	GMS-78	NELAP	1.0	18.7	μg/L	1	02/13/2024 23:04	01/16/2024 1:09
24011316-046A	GMS-79	NELAP	1.0	22.5	μg/L	1	02/13/2024 23:08	01/16/2024 1:09
24011316-047A	GMS-80	NELAP	1.0	10.3	μg/L	1	02/13/2024 23:19	01/16/2024 1:10
24011316-048A	GMS-81	NELAP	1.0	< 1.0	μg/L	1	02/13/2024 23:22	01/16/2024 1:10



Laboratory Results

http://www.teklabinc.com/

Client: Geotechnology, Inc. Work Order: 24011316

Client Project: J044517.01 Report Date: 14-Feb-24

Matrix: DRINKING WATER

Sample ID	Client Sample ID	Certification Qual	RL	Result	Units	DF	Date Analyzed	Date Collected
EPA 600 4.1.4	I, 200.8 R5.4, META	LS BY ICPMS (TOTAL)						
Lead								
24011316-049	A GMS-82	NELAP	1.0	2.7	μg/L	1	02/13/2024 23:37	01/16/2024 1:11
24011316-050	A GMS-83	NELAP	1.0	< 1.0	μg/L	1	02/13/2024 23:41	01/16/2024 1:11
24011316-051	A GMS-84	NELAP	1.0	23.8	μg/L	1	02/13/2024 23:44	01/16/2024 1:12
24011316-052	A GMS-85	NELAP	1.0	< 1.0	μg/L	1	02/13/2024 23:48	01/16/2024 1:12
24011316-053	A GMS-86	NELAP	1.0	< 1.0	μg/L	1	02/13/2024 23:52	01/16/2024 1:13
24011316-054	A GMS-87	NELAP	1.0	< 1.0	μg/L	1	02/14/2024 0:03	01/16/2024 1:13
24011316-055	A GMS-88	NELAP	1.0	< 1.0	μg/L	1	02/14/2024 0:06	01/16/2024 1:13
24011316-056	A GMS-89	NELAP	1.0	< 1.0	μg/L	1	02/14/2024 0:10	01/16/2024 1:15
24011316-057	A GMS-90	NELAP	1.0	< 1.0	μg/L	1	02/14/2024 11:20	01/16/2024 1:15
24011316-058	A GMS-91	NELAP	1.0	< 1.0	μg/L	5	02/14/2024 8:40	01/16/2024 1:15
24011316-059	A GMS-92	NELAP	1.0	19.6	μg/L	1	02/14/2024 11:25	01/16/2024 1:16
24011316-060	A GMS-93	NELAP	1.0	< 1.0	μg/L	1	02/14/2024 11:29	01/16/2024 1:16



NPDES/CWA TCN interferences checked/treated in the field?

Receiving Check List

http://www.teklabinc.com/

Work Order: 24011316 Client: Geotechnology, Inc. Client Project: J044517.01 Report Date: 14-Feb-24 Carrier: Employee Received By: NR Completed by: Ontoer Oblacce Reviewed by: On: On: 19-Jan-24 19-Jan-24 Amber Dilallo Ellie Hopkins Extra pages included 0 Pages to follow: Chain of custody Shipping container/cooler in good condition? Yes **V** No 🗔 Not Present Temp °C N/A Type of thermal preservation? **~** Ice _ Blue Ice None Dry Ice Chain of custody present? **~** No L Yes Chain of custody signed when relinquished and received? **~** Yes No L **~** Chain of custody agrees with sample labels? No 🗀 Yes **~** No 🗌 Samples in proper container/bottle? Yes **V** No 🗌 Sample containers intact? Yes Sufficient sample volume for indicated test? Yes **~** No **~** No \square All samples received within holding time? Yes NA 🗸 Field Lab \square Reported field parameters measured: Yes 🗸 No 🗌 Container/Temp Blank temperature in compliance? When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected. Water - at least one vial per sample has zero headspace? Yes 🗌 No 🗀 No VOA vials 🗸 No TOX containers Water - TOX containers have zero headspace? Yes No 🗌 Yes 🗹 No 🗌 Water - pH acceptable upon receipt?

Samples were checked for turbidity and then preserved with nitric acid upon arrival in the laboratory. - amberdilallo - 1/19/2024 11:24:08 AM

Yes

Any No responses must be detailed below or on the COC.

No 🗀

NA 🗹

pg. 54 of 74 Work order # 24011316

TEKLAB, INC. 5445 Horseshoe Lake Road - Collinsville, IL 62234 - Phone: (618) 344-1004 - Fax: (618) 344-1005

		-				_							1										<i>Ž</i> .	0.16			TA	- 0				
Client:		Geotechnology, LL	.c										- 8		-			\ /	ICE	<u></u> В		CE/	₩ N	O ICE				<u>ر</u> م		LTG	#	
Address:		11816 Lackland Ro												Pre	se	rve	d in	:X	LAB	® F	ELD	•			<u>FO</u>	<u>RL</u>	AB I	<u>JSE</u>	ONL	<u>-Y</u>		8
City / State	/ Zip	St. Louis, MO 631	46										. [Lai	b N	ote	s	•														9
Contact:	Brad Lo	ohrum			Phone	€;	(3	314)	997-	744	10		.																			1
E-Mail:	blohrun	n@teamues.com			Fax:								- [Clie	nt	Coı	nm	ent	s:													
Are these samples	s known	to be involved in liti	gation?	If yes, a	surcharge	will	appl	у	[]	Yes	X	· No																				
Are these samples	s known	to be hazardous?	Yes	s 🛛 I	No																											
		oorting limits to be m tion. 🗌 Yes 🛛		ne reque	sted analys	is?.	If ye	s, pl	lease	∍ þr	ovide		l																			
Project	Name/	Number		Sa	mple Co	llec	tor	's N	lam	e			Ľ		MΑ	TR	X				I	NDI	CAT	ΕAI	NAL	YSI	S RI	EQU	EST	ED		
J04	Project Name/Number Sample Collector's Name J044517.01 Brad Lohrum																1S	G	DW													and the same of th
Results	s Regi	uested	Billin	a Inst	ructions	#	and	Ту	e of	Co	ntain	ers	₽	<u>Ş</u>		<u>S</u>	eci.	õ	-	l											-	
Standard	1-2 Day	(100% Surcharge)		· 9 ···		C	_	,	_				Aqueous	ng	Soil	ğ	a	a₁	Lead													Savendare
Other	☐ 3 Da	y (50% Surcharge)				UNPRES	EONH	\aO⊦	1250	ᇊ	MeOH	냶	Š	Drinking Water		e	Special Waste	Groundwater	E200.8													
Lab Use Only	Sam	ple Identification	Da	te/Time	Sampled	S	u.	_	4		4 <u>±</u>			<u> </u>			ė	٦	0.8									<u> </u>	<u> </u>			
24011314	GN	15 - 34	1/16	1/24	24:43	1								X					Х				\bot					ļ	<u> </u>			
രൂ_	Carl	us-35	'	<u>.</u>	<u> </u>	1								X	↓ _	L	<u> </u>		Х								_	<u> </u>	<u></u>			
m3		36				1								X		┸		<u> </u>	Х			_						<u> </u>	<u> </u>			
204		37			24:44	1								X			L	ļ	Х									<u> </u>	<u> </u>			
<u></u>		38		7	24:46	1							L	<u> </u> X		_		L	Х				_					<u> </u>	<u> </u>			
∞ 4		39				1				\downarrow			L	<u></u> X	-	_		L	X			_	\downarrow						ــــ			
<u> </u>		40				1				_		┖	L	<u> </u>	1	$oldsymbol{\perp}$	<u> </u>	_	Х	_	\perp		_	_			<u> </u>	<u> </u>	<u> </u>	!		
∞ <i>y</i>		41				1						1	L	X	1		<u> </u>		Х				_					<u> </u>	<u> </u>			
∞		42			24:46								_	X	+			_	X				_					<u> </u>	<u> </u>			
Dia	ــــــــــــــــــــــــــــــــــــــ	- 43		ے سلا	24:49	1								<u> </u> X				-	Х									<u> </u>				
	Relir	quished By					Date	:/Ti	me				L					Re	ceive	d By						·····			ate/T	me		
Bredler	(d)	<u> </u>			1/18/	<u>ر</u> ۲	<u>{</u>			.,,							_/	<u></u>	1 14	1/2					L	***************************************		24				
	•	Fa	Der	2	1/19	12	4		u	2.	0 %	?		_		r	ú	4	1	rei	d				1,	<u>l r</u>	9/	24		10	7/2	
		0																						***************************************								

80481

pg. 55 of 74 Work order # 240 11316

TEKLAB, INC. 5445 Horseshoe Lake Road - Collinsville, IL 62234 - Phone: (618) 344-1004 - Fax: (618) 344-1005

				······································								÷																		
Client:		Geotechnology, LL	.c											-					■ BI		E	NO					C	LTG	滞	
Address:		11816 Lackland Ro	oad										Pre	ser	ve	l in	: 📆	LAB	FI	ELD]	FOR	<u>LAB</u>	USE	ON	<u>LY</u>		7
City / State	/ Zip	St. Louis, MO 631	46										Lat	o No	te	\$														
	Brad Lo	ohrum		Phone	:	(3	314)	997-	-744	0																				You was a second
E-Mail:	blohrun	n@teamues.com		Fax:		_							Clie	nt (on	ıme	nts	s:								->				
Are these samples Are there any requ limits in the comm	known ired rep ent sect		Yes X net on the req No	No uested analysi	s?.	If ye	s, p		e pro		No	-1											- 4.1.	A1 1/6		\	150	- pro-		
Project I	Vame/	Number	5	Sample Col	lec	tor	's l	lam	e			L	- 1	MA.	RI	X				- 11	ADIC	AIL	: AN	ALYS	15 K	EUL	1E21	T	T	
J04	4517	.01		Brad Lo	ohr	un	า						모			Sp	ଜ	DW												
Results	s Requ	iested	Billing Ins	structions	#	and	Ту	oe of	i Co	ntain	ers	Ą	몵		2	eci	rou	1 1						***************************************						
Standard C		(100% Surcharge) y (50% Surcharge)			UNPRE	HNO	NaOt	H2SO4	百	NaHSO4	OHE	Aqueous	Drinking Water	Soil	Sludge	al Wası	Groundwater	Lead E200.8										***************************************		4000
Lab Use Only	Sam	ple Identification	Date/Tim	ne Sampled	S			4		4			<u> </u>			æ	Ť.	0.8										<u> </u>		
2401/31/4	GH	5-44	1/16/24	24:49	1								X					X								<u> </u>	<u> </u>	<u> </u>		
012		45-45	1'1'	+	1								X		L			X									<u> </u>	<u> </u>		- Indiana
013		46		24:51	1						L		X					X								<u> </u>		<u> </u>		
014		49		1	1							L	<u> </u> X					X										<u> </u>		
0,5		48			1								<u> </u>					X								<u> </u>	<u> </u>			
016		49			1								X					X									<u> </u>			
רוט		50		24:52	1								X					X							$oldsymbol{ol}}}}}}}}}}}}}}}}}$					a de la companya de l
018		51		١	1								X					Х									L	<u> </u>		
∂ \ 9		52			1								<u> </u> x					Х												
020	+	53	1	سل	1								X					Х			\perp						<u> </u>			
	Relin	quished By			1	ate	:/Ti	me									Re	ceive	d By							D	ate/T	ime		
Bros Ou	(12			1/18/2	나											L	- []	lle	اسمر					17	12	1/	18	12	4	
	J	HIK	1	1/19/	2	¥		jί	20	60C	,				0	1	n	M	K	94	d				110	1/2	<u>Y</u>	·]	012	<u> </u>
									······································																					

pg. 56 of 74 Work order # 24011316

TEKLAB, INC. 5445 Horseshoe Lake Road - Collinsville, IL 62234 - Phone: (618) 344-1004 - Fax: (618) 344-1005

		<u> </u>																																San
Client:		Geotechnology, Li	LC											1	San	nple	es c	n:		ICE	88	BLUE	ICE	**	NO IC	E			0	С	LTG	#		<u> </u>
Address:		11816 Lackland R	oad											I	e:	ser	/ed	in:		LAB	2	FIELD)			<u>F0</u>	<u> DR L</u>	AB I	<u>USE</u>	ONL	<u>.Y</u>			Sp. (question)
City / State	/ Zip	St. Louis, MO 63	146											l	_ab	No	tes																	3
Contact:	Brad Lo	ohrum	w		Ph	one	:	(3	14) 9	97-7	7440																							Digwys 110
E-Mail:	blohrun	n@teamues.com			Fax	x:								С	lier	nt C	om	me	nts	:					* .					J	,			×
Are these samples	these samples known to be involved in litigation? If yes, a surcharge will apply													1																				ļ
Are these samples known to be hazardous?																																		
				he reque	sted an	nalysis	s?. I	f yes	, ple	ease	prov	ide																						
Project Name/Number Sample Collector's Name J044517.01 Brad Lohrum														┞	N	ΙΑΊ	RI)	<u> </u>					IND	ICA	TE A	NAI	LYSI	S R	EQU	EST	ED		-	70
Project Name/Number Sample Collector's Name J044517.01 Brad Lohrum															D			ر,	_	DW														
								e of	Conf	aine	rs	Α	rink		اي	ğ,	Gro															į		
Standard	1-2 Day	(100% Surcharge)	ructio	- 1		Т		Т	T	7		que	enio	Soil	Sludge	<u> </u>	bnu	Lead																
Other	☐ 3 Da	ay (50% Surcharge)			NPR	N I		1250 1250		aHS	ЭНТС	ous	Drinking Water	=	ge	Special Waste	Groundwater	E200																
Lab Use Only	Sam	ple Identification	Sampl	led	ES	ω	<u> </u>	4	I	4	R		er			ਰਿ	¥	0.8																
240113110- OLI	GM	5-54	0/24	24:	54	1								Х					X								<u> </u>	,,,,,,,,,,,	<u> </u>					
022	GI	15-65	<u> </u>	<u>(</u>	4		1								Х			╝		Х									<u> </u>	<u> </u>				
023		56			24%	55	1								Х					Х								<u> </u>	<u> </u>	<u> </u>				
1024		51				1		_	<u> </u>					X			ļ		Х								<u> </u>	ļ <u>.</u>	<u> </u>					
02.5		58					1				_				Х					X								<u> </u>	<u> </u>	<u> </u>				-
<u>024</u>		59		1	24:	58	1								X					Х			_					<u> </u>	<u> </u>	<u> </u>				
<u> </u>		60	<u> </u>				1				_				Х					X							ļ	<u> </u>	<u> </u>	<u> </u>				
028		61					1								Х					Х									<u> </u>	<u> </u>				
029		62					1								Х					Х														ļ
030		b3	<u>ــ</u>	_	-	1								Х					Х						,									
	Relir	nquished By				D	ate/	Tin	1e									Re	ceive	d By									ate/Ti				is:	
Bud	len	<u></u>		1/1	5/	2	1												IL	4				<u> </u>	<u> </u>	///	3/	124	i Y				···	
1-	1/	2	ا سِد	'1/	113	1-	24	_	l	De	Ø							g g	w	h	1	Re		<u>/</u>		1/	19	<u>/z</u>	4	10	2/2			
			/																								,							

BottleOrder: 80481



pg. 57 of 74 Work order # 2401314

TEKLAB, INC. 5445 Horseshoe Lake Road - Collinsville, IL 62234 - Phone: (618) 344-1004 - Fax: (618) 344-1005

		<u> </u>																						,,									27.000
Client:		Geotechnology, Ll	-C											Sar	npl	es	on:	33	ICE		BLUE	ICE		10 IC	Æ			O	,C	LTG	#		-
Address:		11816 Lackland R	oad											Pre	sei	ve	d in	; 🖾	LAB	* 1	TELD				FC	<u>)R L</u>	AB	<u>USE</u>	ONL	<u>_Y</u>			Design Design
City / State	/ Zip	St. Louis, MO 631	46										ı	Lat	N	ote:	s																
Contact:	Brad Lo	ohrum		Р	hone	:	(3	14)	997-7	440)		ı																				nagraph.
E-Mail:	blohrur	n@teamues.com		F:	ax:								Ī	Clie	nt (Cor	nme	ent	s:				<u>-</u>	,w								·· · · · · · · · · · · · · · · · · · ·	
Are these samples Are there any requ limits in the comm	s known iired rep ent sec		s 🛚 No the requested :	analysis	s?. l	f yes	, pl		pro	፟፟፟፟፟፟ vide	No																						
Project Name/Number J044517.01 Results Requested Standard 1-2 Day (100% Surcharge) Other 3 Day (50% Surcharge) Sample Collector's Name Brad Lohrum # and Type of Contain ## And Type of Contain													_		MA	TRI	X					IND	ICA	IE A	NAL	_YSI	SK	EQU	JEST	EU		1	e.
J04	4517	.01	Bra	ad Lo	hr	um							<u>P</u> :			SS	ନ	D.W					l										
Result	s Req	uested	ng Instruct	ions	#	and	Тур	e of	Con	tain	ers	δ	됳		S	eci	ğ	• 1															
1		1	_		UNPRI	NO	NaO	H2SO.	E S	NaHSC	SHIO	ueous	Drinking Water	Soil	Sludge	al Wast	Groundwater	Lead E200.8															
Lab Use Only	Sam	ple Identification	ate/Time Sam	pled	S	۵		4	ľ	4			e			œ.	٦	0.8						÷. ,								To and	
240113145	GM.	5-64	6/24/24	:59	1								X			L		Х									<u> </u>						
(72)		5-65	1' -	 -	1								X					Х									<u> </u>	<u> </u>					
O33	-	66	13	00	1								X					Х															
1734		67	+	-	1								X		L			Х															
035	П	68		1:	01	1								X					Х														
036		69		Ŧ	_	1								X					Х												<u> </u>		ļ
637		70		1:	02	1								X					Х									<u></u>					ļ
ರ್ಚ		71		4	-	1								X					Х								<u> </u>	<u> </u>			<u> </u>		
039		77.		150	03	1								X					Х									<u></u>					ļ
040	1	73		L +	-	1								X					Х									<u> </u>					
1	Relir	nquished By			C	ate/	Tin	ne									Re	ceive	d By					T		, 		ate/Ti	me			180	
Boole	1/2	<u> </u>	1/	18/2	4	•										<u> </u>	0	Plea	_			_			<u>//</u>	12	12	<u>,4</u>		, <u>.</u>			
	V	RDA	1/	1/9	<u>/</u>	24	1	1	0!	α	>				1	ú	w	4	1	Re	1	/				/10	1/2	24		10	12		
		, ,	U				····																`		\bot								

The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.teklabinc.com for terms and conditions.

BottleOrder:



80481

pg. 58 of 74 Work order # 24011316

TEKLAB, INC. 5445 Horseshoe Lake Road - Collinsville, IL 62234 - Phone: (618) 344-1004 - Fax: (618) 344-1005

		<u> </u>		7. OCOMOC EUI	-												Fermi		Ferm		= 101	- Franci				<u> </u>		°C	-			
Client:		Geotechnology, LI												_				ICE					NO					-			讲	Ì
Address:		11816 Lackland R										- 8						LAB	- E	FIEL	.D			<u> </u>	OR	LAE	<u>, US</u>	SE C	JNL	<u>.Y</u>		
City / State	/ Zip	St. Louis, MO 631	46									_	Lal	b N	ote	S																
Contact:	Brad Lo	ohrum		Phone	} :	(3	14)	997	-74	40		- L																_				
E-Mail:	blohrun	n@teamues.com		Fax:		_						- [Clie	nt	Cor	nme	ent	5;														
Are these samples Are there any requirements in the comm	s known iired rep ent sect	to be hazardous? orting limits to be n ion.	Yes net on th	ne requested analys	is?.	lf ye	s, p	leas	e pr	ovide		2									25. b.l	210		***		710		>1 ir	- O-T-1	En		
Project	Name/	Number	Sample Col	lec	tor	s N	lam	1e			L	 	MA	IK	X	1				IN) (C)	\IE	ANA	LT	SIS	<u> </u>	JUE	.511	=	_		
J04	4517	.01		Brad Lo								⅃	Dri			as	ଦ୍ର	Š														
Result	s Requ	rested	Billin	g Instructions	#	and	Туј	pe of	C	ontain	ers	⊒ <u>₽</u>	n Kir		S	eci.	ino.	- Lead														
Standard		(100% Surcharge) y (50% Surcharge)		UNPRES	HNO	NaO	H2SO	표	MeOH		Aqueous	Drinking Water	Soil	ldge	Special Waste	Groundwater	ad E200.8							***************************************								
Lab Use Only	Sam	ple Identification	Da	te/Time Sampled	S	ω	-	4		# #	` `~	'	ter			िं	*	0.8									\perp					
2401/314	GM	S-74	124 1:07	1								X	-				Х										_		<u> </u>	<u> </u>		
OUI	GV	15- 75	<u> </u>	<u> </u>	1							L	X	4	<u> </u>			Х			<u> </u>	ļ	<u> </u>	<u> </u>			\bot	4			<u> </u>	
043	ſ	76		(:08	1							L	X					Х						<u> </u>				\perp				
014		77		+	1			***************************************					X					Х									\perp				$oldsymbol{ol}}}}}}}}}}}}}}}}}$	
045		78		1:09	1						T	T	X					Х														
044		79		+	1								X					Х														
04)		40		1:10	1							Ι	X					Х														
OUF		81		+	1							Τ	X					Х								\perp	\perp					
04		82	1:11	1								X					Х													<u> </u>		
050		- 83	F - F	1							T	Х					Х															
U.J.I.Z.	Relin	quished By]	ate	/Ti	me				仜					Re	ceive	ed B	у							_		te/Ti	me			
Brodley dry 1/18/24																	J.	20	/h	9)				1	118	3/	2	<u>/_</u>			
V	7	RII	بسرا		24				0	&C)				/	2	i	elr		K	ee	<u>d</u>			į	1	9/	12:			10	12
		. 4		,								_										1		_			·					
				1								1												- 1								

80481

BottleOrder:



pg. 59 of 74 Work order # 24011314

TEKLAB, INC. 5445 Horseshoe Lake Road - Collinsville, IL 62234 - Phone: (618) 344-1004 - Fax: (618) 344-1005

Client:		Geotechnology, LL	0										T	Sa	mp	les	on:	100	ICE		BLU	E ICE		NO I	CE			c	°C	LT(G#		
Address:		11816 Lackland Ro	ad										- I		-				LAB							OR L	.AB	USE	ON	LY			on Stell work
City / State	/ Z ip	St. Louis, MO 6314	16			-,,							1	Lal																			William State
Contact:	Brad L				_ Phone	 >:	(3	314)	997-	744	Ю																						A A STATE OF THE S
E-Mail:	blohrur	m@teamues.com			_ Fax:								_	Clie	nt	Co	mm	ent	s:									***************************************		* * *			
Are these samples	s known	to be involved in litig	ation?	If yes,	a surcharge	will	appl	y		Yes	<u> </u>	No	_																				
		to be hazardous?	_																														
Are there any requiring in the comm		porting limits to be m tion. Yes		he requ	ested analysi	s?.	If ye	s, p	lease	nq s	ovide		ı																				
Project	Name	/Number		S	ample Col	lec	tor	s N	lam	e			Ľ		MA	\TR	ΙX					INI	DICA	TE	ANA	LYS	IS R	EQL	JEST	ED			
J04	4517	'.01			Brad Lo	ohi	un	1						Dr			St	ତ	MG														
Results	s Req	uested	ıg İns	tructions	#	and	Туј	oe of	Со	ntair	iers]≥	· <u>F</u>		S	ec.	ľ	- [6															
Standard		1		_		Ş	I	z	ᆵ	_	~ <u>-</u>	3 0	Leo O	ng \	Soil	gbu		Mpu	Lead														
Other	3 Da	ay (50% Surcharge)				묽	Z	laOF	250,	취	ᅙᆙ	HE	ŝ	Drinking Water		æ	Special Waste	Groundwater	E200.8														
Lab Use Only	Sam	ple Identification	Da	te/Time	Sampled	Š	_		4		ntair MeOH	` ^		er			e e		0.8							<u> </u>		<u> </u>		<u> </u>	<u> </u>		EC)(2000
240113197	GW	15-84	1/16	1/24	1:12	1							L	Х	丄				Х							↓_	<u> </u>		<u> </u>	<u> </u>	<u> </u>		
057	GY	45-85	<u> </u>	<u> </u>	+	1							L	Х					Х							<u> </u>				<u> </u>	<u> </u>		
<u> </u>	ĺ	T6		1:13	1							L	X	┺		_	L	Х							<u> </u>	<u> </u>		<u> </u>	┷	<u> </u>			
(554		57				1	<u> </u>			\bot		┸	L	X	4	$oldsymbol{\perp}$			Х						<u> </u>	ļ	<u> </u>	<u> </u>	<u> </u>		ـــــ		
055		58				1			Ц				L	Ų×	+	_		L	Х						<u> </u>	<u> </u>	ļ	ـــــ	<u> </u>		<u> </u>		
056		89			1:15	1	<u> </u>					┸	L	<u> </u>		┸		L	Х							ـــــــ		<u> </u>	<u> </u>	<u> </u>	ـــــ		
ය ව		90				1							┸	X	丄				X							<u> </u>	ļ	ــــ	<u> </u>	<u> </u>	<u> </u>		
0575		91				1							L	X	$oxed{oxed}$	┸			Х							ļ	<u> </u>	<u> </u>	<u> </u>	—	<u> </u>		
<i>USG</i>		92			1:16	1							L	X	-		_		Х							<u> </u>		<u> </u>			<u> </u>		
αø		- 93		<u></u>	<u>+</u>	1								X	<u> </u>				Х									<u></u>	Ш,				- 100
	Relin	nquished By				_	ate	/Ti	me				L					Re	ceiv	ed B	<u>y</u>			3	-	,			ate/T	ime			23
Fredly	1	<u> </u>			1/18/	24	<u> </u>						lacksquare					$\overline{\alpha}$	12	\ <u>/</u>	n		n		<u> </u>	1/18							
	4	12	\mathcal{N}		1/19/2	28			j O.	8	D		_					v	w	r	R	le	d		-		10	<u>l / </u>	24		10	12	
		(/																														
													1												***************************************								

80481



February 15, 2024

Brad Lohrum Geotechnology, Inc. 11816 Lackland Road St. Louis, MO 63146

TEL: (314) 997-7440 FAX: (314) 997-2067

RE: J044517.01 **WorkOrder:** 24011317

Dear Brad Lohrum:

TEKLAB, INC received 60 samples on 1/19/2024 10:00:00 AM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Shelly A. Hennessy

Shelly A Hennessy

Project Manager

(618)344-1004 ex 36

SHennessy@teklabinc.com



Illinois 100226 Kansas E-10374 Louisiana 05002 Louisiana 05003 Oklahoma 9978



Report Contents

http://www.teklabinc.com/

Client: Geotechnology, Inc.

Work Order: 24011317

Client Project: J044517.01

Report Date: 15-Feb-24

This reporting package includes the following:

Cover Letter	1
Report Contents	2
Definitions	3
Case Narrative	5
Accreditations	6
Laboratory Results	7
Receiving Check List	9
Chain of Custody	Appended



Definitions

http://www.teklabinc.com/

Client: Geotechnology, Inc.

Work Order: 24011317

Client Project: J044517.01 Report Date: 15-Feb-24

Abbr Definition

- * Analytes on report marked with an asterisk are not NELAP accredited
- CCV Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.
- CRQL A Client Requested Quantitation Limit is a reporting limit that varies according to customer request. The CRQL may not be less than the MDL.
 - DF Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilution factors.
 - DNI Did not ignite
- DUP Laboratory duplicate is a replicate aliquot prepared under the same laboratory conditions and independently analyzed to obtain a measure of precision.
- ICV Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.
- IDPH IL Dept. of Public Health
- LCS Laboratory control sample is a sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes and analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system.
- LCSD Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
- MBLK Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses.
- MDL "The method detection limit is defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results."
- MS Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request).
- MSD Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
- MW Molecular weight
- NC Data is not acceptable for compliance purposes
- ND Not Detected at the Reporting Limit
- NELAP NELAP Accredited
 - PQL Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions.
 - RL The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.
 - RPD Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request).
 - SPK The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes.
 - Surr Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.
 - TIC Tentatively identified compound: Analytes tentatively identified in the sample by using a library search. Only results not in the calibration standard will be reported as tentatively identified compounds. Results for tentatively identified compounds that are not present in the calibration standard, but are assigned a specific chemical name based upon the library search, are calculated using total peak areas from reconstructed ion chromatograms and a response factor of one. The nearest Internal Standard is used for the calculation. The results of any TICs must be considered estimated, and are flagged with a "T". If the estimated result is above the calibration range it is flagged "ET"
- TNTC Too numerous to count (> 200 CFU)



Definitions

http://www.teklabinc.com/

Client: Geotechnology, Inc. Work Order: 24011317

Client Project: J044517.01 Report Date: 15-Feb-24

Qualifiers

- # Unknown hydrocarbonC RL shown is a Client Requested Quantitation Limit
- H Holding times exceeded
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
 - S Spike Recovery outside recovery limits
 - X Value exceeds Maximum Contaminant Level

- B Analyte detected in associated Method Blank
- E Value above quantitation range
- I Associated internal standard was outside method criteria
- M Manual Integration used to determine area response
- R RPD outside accepted recovery limits
- T TIC(Tentatively identified compound)



Case Narrative

http://www.teklabinc.com/

Work Order: 24011317

Report Date: 15-Feb-24

Client: Geotechnology, Inc.

Client Project: J044517.01

Cooler Receipt Temp: N/A °C

Locations

	Collinsville		Springfield		Kansas City
Address	5445 Horseshoe Lake Road	Address	3920 Pintail Dr	Address	8421 Nieman Road
	Collinsville, IL 62234-7425		Springfield, IL 62711-9415		Lenexa, KS 66214
Phone	(618) 344-1004	Phone	(217) 698-1004	Phone	(913) 541-1998
Fax	(618) 344-1005	Fax	(217) 698-1005	Fax	(913) 541-1998
Email	jhriley@teklabinc.com	Email	KKlostermann@teklabinc.com	Email	jhriley@teklabinc.com
	Collinsville Air		Chicago		
Address	5445 Horseshoe Lake Road	Address	1319 Butterfield Rd.		
	Collinsville, IL 62234-7425		Downers Grove, IL 60515		
Phone	(618) 344-1004	Phone	(630) 324-6855		
Fax	(618) 344-1005	Fax			
Email	EHurley@teklabinc.com	Email	arenner@teklabinc.com		



Accreditations

http://www.teklabinc.com/

Client: Geotechnology, Inc. Work Order: 24011317

Client Project: J044517.01 Report Date: 15-Feb-24

State	Dept	Cert #	NELAP	Exp Date	Lab
Illinois	IEPA	100226	NELAP	1/31/2025	Collinsville
Kansas	KDHE	E-10374	NELAP	4/30/2024	Collinsville
Louisiana	LDEQ	05002	NELAP	6/30/2024	Collinsville
Louisiana	LDEQ	05003	NELAP	6/30/2024	Collinsville
Oklahoma	ODEQ	9978	NELAP	8/31/2024	Collinsville
Arkansas	ADEQ	88-0966		3/14/2024	Collinsville
Illinois	IDPH	17584		5/31/2025	Collinsville
Iowa	IDNR	430		6/1/2024	Collinsville
Kentucky	UST	0073		1/31/2025	Collinsville
Missouri	MDNR	00930		10/31/2026	Collinsville
Missouri	MDNR	930		1/31/2025	Collinsville



Laboratory Results

http://www.teklabinc.com/

Client: Geotechnology, Inc. Work Order: 24011317

Client Project: J044517.01 Report Date: 15-Feb-24

Matrix: DRINKING WATER

	Client Sample ID	Certification Qual	RL	Result	Units	DF	Date Analyzed	Date Collected
_	-	LS BY ICPMS (TOTAL)					v	
Lead								
24011317-001A	GMS-94	NELAP	1.0	34.9	μg/L	1	02/15/2024 9:48	01/16/2024 1:17
24011317-002A	GMS-95	NELAP	1.0	< 1.0	μg/L	1	02/15/2024 9:53	01/16/2024 1:17
24011317-003A	GMS-96	NELAP	1.0	12.3	μg/L	5	02/14/2024 8:44	01/16/2024 1:18
24011317-004A	GMS-97	NELAP	1.0	< 1.0	μg/L	1	02/15/2024 9:58	01/16/2024 1:18
24011317-005A	GMS-98	NELAP	1.0	56.9	μg/L	1	02/15/2024 10:45	01/16/2024 1:19
24011317-006A	GMS-99	NELAP	1.0	38.4	μg/L	1	02/15/2024 10:03	01/16/2024 1:19
24011317-007A	GMS-100	NELAP	1.0	17.8	μg/L	1	02/15/2024 10:50	01/16/2024 1:20
24011317-008A	GMS-101	NELAP	1.0	< 1.0	μg/L	1	02/15/2024 10:55	01/16/2024 1:20
24011317-009A	GMS-102	NELAP	1.0	57.8	μg/L	5	02/13/2024 9:55	01/16/2024 1:22
24011317-010A	GMS-103	NELAP	1.0	84.7	μg/L	5	02/13/2024 9:34	01/16/2024 1:22
24011317-011A	GMS-104	NELAP	1.0	17.6	μg/L	5	02/13/2024 9:38	01/16/2024 1:22
24011317-012A	GMS-105	NELAP	1.0	< 1.0	μg/L	1	02/15/2024 11:01	01/16/2024 1:26
24011317-013A	GMS-106	NELAP	1.0	< 1.0	μg/L	1	02/15/2024 11:06	01/16/2024 1:26
24011317-014A	GMS-107	NELAP	1.0	< 1.0	μg/L	1	02/15/2024 11:11	01/16/2024 1:26
24011317-015A	GMS-108	NELAP	1.0	< 1.0	μg/L	1	02/15/2024 11:16	01/16/2024 1:26
24011317-016A	GMS-109	NELAP	1.0	19.7	μg/L	1	02/02/2024 19:19	01/16/2024 1:26
24011317-017A	GMS-110	NELAP	1.0	< 1.0	μg/L	1	02/02/2024 19:23	01/16/2024 1:28
24011317-018A	GMS-111	NELAP	1.0	< 1.0	μg/L	1	02/02/2024 19:27	01/16/2024 1:28
24011317-019A	GMS-112	NELAP	5.0	149	μg/L	5	02/09/2024 5:31	01/16/2024 1:28
24011317-020A	RBE-01	NELAP	1.0	1.2	µg/L	5	02/13/2024 9:42	01/16/2024 1:52
24011317-021A	RBE-02	NELAP	1.0	< 1.0	µg/L	5	02/13/2024 9:47	01/16/2024 1:55
24011317-022A	RBE-03	NELAP	1.0	< 1.0	µg/L	5	02/13/2024 9:51	01/16/2024 1:55
24011317-023A	RBE-04	NELAP	1.0	< 1.0	µg/L	1	02/02/2024 19:48	01/16/2024 1:57
24011317-024A	RBE-05	NELAP	1.0	< 1.0	µg/L	1	02/02/2024 19:35	01/16/2024 1:58
24011317-025A	RBE-06	NELAP	1.0	< 1.0	µg/L	1	02/02/2024 19:39	01/16/2024 1:59
24011317-026A	RBE-07	NELAP	1.0	< 1.0	µg/L	1	02/02/2024 19:43	01/16/2024 2:00
24011317-027A	RBE-08	NELAP	1.0	9.9	µg/L	1	02/02/2024 20:12	01/16/2024 2:02
24011317-028A	RBE-09	NELAP	1.0	2.3	µg/L	5	02/12/2024 16:05	01/16/2024 2:02
24011317-029A	RBE-10	NELAP	1.0	2.0	µg/L	5	02/12/2024 16:09	01/16/2024 2:02
24011317-030A	RBE-11	NELAP	1.0	5.0	µg/L	5	02/12/2024 16:13	01/16/2024 2:02
24011317-031A	RBE-12	NELAP	1.0	< 1.0	µg/L	1	02/02/2024 20:41	01/16/2024 2:03
24011317-032A	RBE-13	NELAP	1.0	< 1.0	µg/L	1	02/02/2024 20:16	01/16/2024 2:06
24011317-033A	RBE-14	NELAP	1.0	< 1.0	µg/L	5	02/12/2024 15:13	01/16/2024 2:06
24011317-034A	RBE-15	NELAP	1.0	< 1.0	µg/L	5	02/12/2024 15:17	01/16/2024 2:06
24011317-035A	RBE-16	NELAP	1.0	1.6	µg/L	1	02/02/2024 20:21	01/16/2024 2:07
24011317-036A	RBE-17	NELAP	1.0	1.1	µg/L	1	02/02/2024 20:25	01/16/2024 2:08
24011317-037A	RBE-18	NELAP	1.0	1.5	µg/L	1	02/02/2024 20:29	01/16/2024 2:08
24011317-038A	RBE-19	NELAP	1.0	1.8	µg/L	1	02/02/2024 20:33	01/16/2024 2:09
24011317-039A	RBE-20	NELAP	1.0	< 1.0	µg/L	1	02/02/2024 20:37	01/16/2024 2:10
24011317-040A		NELAP	1.0	< 1.0	µg/L	1	02/02/2024 21:35	01/16/2024 2:11
24011317-041A	RBE-22	NELAP	1.0	< 1.0	µg/L	1	02/02/2024 21:06	01/16/2024 2:11
24011317-042A	RBE-23	NELAP	1.0	< 1.0	µg/L	1	02/02/2024 21:10	01/16/2024 2:11
24011317-043A	RBE-24	NELAP	1.0	< 1.0	µg/L	1	02/02/2024 21:14	01/16/2024 2:12
24011317-044A		NELAP	1.0	< 1.0	µg/L	1	02/02/2024 21:18	01/16/2024 2:12
24011317-045A		NELAP	1.0	4.3	µg/L	5	02/12/2024 15:22	01/16/2024 2:13
24011317-046A	RBE-27	NELAP	1.0	< 1.0	µg/L	1	02/02/2024 21:22	01/16/2024 2:14
24011317-047A	RBE-28	NELAP	1.0	1.1	µg/L	1	02/02/2024 21:27	01/16/2024 2:17
24011317-048A	RBE-29	NELAP	1.0	< 1.0	µg/L	1	02/02/2024 21:31	01/16/2024 2:18



Laboratory Results

http://www.teklabinc.com/

Client: Geotechnology, Inc. Work Order: 24011317

Client Project: J044517.01 Report Date: 15-Feb-24

Matrix: DRINKING WATER

Sample ID	Client Sample ID	Certification Qual	RL	Result	Units	DF	Date Analyzed	Date Collected
EPA 600 4.1.4	, 200.8 R5.4, META	LS BY ICPMS (TOTAL)					
Lead		·						
24011317-049/	A RBE-30	NELAP	1.0	< 1.0	μg/L	1	02/02/2024 22:00	01/16/2024 2:19
24011317-050/	A RBE-31	NELAP	1.0	< 1.0	µg/L	1	02/02/2024 22:04	01/16/2024 2:20
24011317-051/	A RBE-32	NELAP	1.0	1.4	µg/L	1	02/02/2024 22:28	01/16/2024 2:20
24011317-052/	A RBE-33	NELAP	1.0	< 1.0	µg/L	1	02/02/2024 22:08	01/16/2024 2:21
24011317-053/	A RBE-34	NELAP	1.0	< 1.0	µg/L	1	02/02/2024 22:12	01/16/2024 2:21
24011317-054/	A RBE-35	NELAP	1.0	< 1.0	µg/L	1	02/02/2024 22:16	01/16/2024 2:21
24011317-055/	A RBE-36	NELAP	1.0	< 1.0	µg/L	1	02/02/2024 22:20	01/16/2024 2:22
24011317-056/	A RBE-37	NELAP	1.0	< 1.0	µg/L	1	02/03/2024 0:08	01/16/2024 2:22
24011317-057/	A RBE-38	NELAP	1.0	< 1.0	µg/L	1	02/03/2024 0:12	01/16/2024 2:23
24011317-058/	A RBE-39	NELAP	1.0	< 1.0	µg/L	1	02/03/2024 0:41	01/16/2024 2:23
24011317-059/	A RBE-40	NELAP	1.0	< 1.0	µg/L	1	02/03/2024 0:45	01/16/2024 2:24
24011317-060/	A RBE-41	NELAP	1.0	1.7	µg/L	1	02/03/2024 0:49	01/16/2024 2:25



NPDES/CWA TCN interferences checked/treated in the field?

Receiving Check List

http://www.teklabinc.com/

NA 🗹

Work Order: 24011317 Client: Geotechnology, Inc. Client Project: J044517.01 Report Date: 15-Feb-24 Carrier: Employee Received By: LM Completed by: Ontoer Oblacce Reviewed by: On: On: 19-Jan-24 19-Jan-24 Amber Dilallo Ellie Hopkins Extra pages included 0 Pages to follow: Chain of custody Shipping container/cooler in good condition? Yes **V** No 🗔 Not Present Temp °C N/A Type of thermal preservation? **~** Ice _ Blue Ice None Dry Ice Chain of custody present? **~** No L Yes Chain of custody signed when relinquished and received? **~** Yes No L **~** Chain of custody agrees with sample labels? No 🗀 Yes **~** No 🗌 Samples in proper container/bottle? Yes **V** No 🗌 Sample containers intact? Yes Sufficient sample volume for indicated test? Yes **~** No **~** No \square All samples received within holding time? Yes NA 🗸 Field Lab \square Reported field parameters measured: Yes 🗸 No 🗌 Container/Temp Blank temperature in compliance? When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected. Water - at least one vial per sample has zero headspace? Yes 🗌 No 🗀 No VOA vials 🗸 No TOX containers Water - TOX containers have zero headspace? Yes No 🗌 Yes 🗹 No 🗌 Water - pH acceptable upon receipt?

Samples were checked for turbidity and then preserved with nitric acid upon arrival in the laboratory. - amberdilallo - 1/19/2024 11:33:21 AM

Yes

Any No responses must be detailed below or on the COC.

No 🗀

pg. 60 of 74 Work order # 24011317

TEKLAB, INC. 5445 Horseshoe Lake Road - Collinsville, IL 62234 - Phone: (618) 344-1004 - Fax: (618) 344-1005

		.,,										,							`	<u> </u>		,					<i>.</i>				 -26
Client:		Geotechnology, Ll	-c									!	San	npl	es (on:		ICE		BLUI	EICE	X	NO I	CE	1	VA	<u>د</u> °	C,	LTG	#	 - N
Address:		11816 Lackland R		,								1	Pre	ser	vec	l in	X	LAB		FIEL	D	,		<u>F(</u>	OR L	.AB	<u>USE</u>	ONI	<u>_Y</u>		Many makes
City / State	/ Zip	St. Louis, MO 631	46										Lab	No	otes	5	<i>,</i> `														1500,000.00
Contact:	Brad Lo	ohrum		_ Phone	} :	(3	14)	997-7	744()																					-07 NO AN
E-Mail:	biohrun	n@teamues.com		 Fax:		_							Clier	at C	`on	าการ	nto													427	A.
Are these complete	knoum	to be involved in lit	igation? If yes	a eurobarga	القدر	anni	,	□ Y	' ec	M	No	_	,,,,,,	•••	,,,			•													
		to be involved in it.			ARIH	appi	,	L 1	63	Z	110																				
Are there any requ	ired rep	orting limits to be n	net on the requ		is?.	If ye	s, pl	ease	pro	vide																					
		tion. Yes 🛭										┸,																			 -2);
Project l	Name/	'Number	ample Col	llec	tor'	s N	lame	9				N	ΙA	[RI	X				7	INE	ICA	TE /	ANA	LYS	IS RI	EQU	JEST	ED		 T***	
J04	4517	7.01		Brad Lo	ohi	um	1						D.			SS	ଦ୍ର	DΨ													
Results	s Requ	uested	Billing Ins	tructions	#	and	Тур	e of	Con	taine	ers	Aqueous	Drinking Water		Si	Special Waste	Groundwater	1 1													
		(100% Surcharge)		Ş	_∓	z	Į,	- -	공	9	ieo	Jo l	Soil	Sludge	<u>×</u>	Μpi	Lead t														
Other	3 Da	ay (50% Surcharge)		몵	HN03	일	H2SO4	2 2	NaHSO4	H.	S	Vat		æ	ast	ate	E200.														
Lab Use Only	Sam	ple Identification	e Sampled	S					4			œ			æ).8									<u> </u>		<u> </u>			
24011317·	GM	5-94	1:17	1								X					X						<u> </u>	ļ		<u> </u>	<u> </u>	ļ		<u> </u>	
00L	GW	15- 95	ナ	1					_	_		Х					Х		ļ				ļ			<u> </u>	ļ	<u> </u>		 <u> </u>	
<i>E</i>	£	96	1:18	1					┸		<u> </u>	X					X						<u> </u>	<u> </u>		<u> </u>	<u> </u>	ļ		 <u> </u>	
64		97	<u></u>	1				┸	┸			Х			L		X						<u> </u>			<u> </u>	<u> </u>	<u> </u>		 	
B		95		1:19	1				$oldsymbol{\perp}$	┸	L		Х					X						<u> </u>	<u> </u>		<u> </u>				<u> </u>
70 0		99		<u>+</u>	1							L	Х					Х							<u> </u>		<u> </u>	<u> </u>			<u> </u>
8		100		1:20	1				\perp				Х					Х													ļ
3		101		+	1								Х					Х													
209		102		1:22	1								Χ					Х													
010		- 103	1	+	1						Γ		Х					Х													
0.0	Relin	quished By				Date	/Tir	ne			<u>. </u>						Re	ceiv	ed B	У			*			- 2	Dí	ate/T	ime		
Bred Dec	Λd	m		1/18/2	:4													2	<u> </u>	10					1	118	<u>/z</u>	4			
	00	KO. IL	ul	1/19/	24	/		10	10	0						\searrow	D	1/	1/2/	8]/[9/	14		100	<u> 20</u>	
		1	V					, . ,		***************************************							,	, .							- (
																											************				 ***************************************

BottleOrder: 80481

pg. 61 of 74 Work order # 24011317

TEKLAB, INC. 5445 Horseshoe Lake Road - Collinsville, IL 62234 - Phone: (618) 344-1004 - Fax: (618) 344-1005

- A	Geotechnology,	ILC										San	aple		m:	SS	ICE	79	BLUE	EICE		NO I	CE			C	C	LTG	#	- 4	_
Client: Address:	11816 Lackland			***********	······································	**********																		OR I	_AB	USE	ON			Tangah, Ma	
City / State	St. Louis, MO 6	3146	****								• 🖪	Lab				•—														pa na na na na	
Contact:	Brad Lohrum		_ Phone	۶. 	(3	314)	997-	744	0		•																			2- A Company	
E-Mail:	blohrum@teamues.com		_ Fax:	••					· · · · · · · · · · · · · · · · · · ·		ŀ	lier	٠+ C	`AP		nte				•			-		•						_
Are these samples Are there any requ limits in the comm	rired reporting limits to be ent section.	Yes 🛭 Yes 🔻 met on the requ	No ested analys	is?.	if ye	s, p		pro		No							-														
Project I	Name/Number	S	ample Col	llec	tor	s N	lam	e			L	<u> </u>	ΙΑΊ	RI)	<u> </u>					INI	DICA	NIE.	ANA	LYS	IS R	EQU	JEST	ED			
J04	4517.01		Brad Lo	ohr	un	1						D.			S	ଦ୍ର	DΨ														
Are these samples known to be hazardous? Yes No Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section. Yes No Project Name/Number Sample Collector's Name J044517.01 Brad Lohrum Results Requested Billing Instructions # and Type of Containers Standard 1-2 Day (100% Surcharge) Other 3 Day (50% Surcharge) Lab Use Only Sample Identification Date/Time Sampled 240[13] GMS - 104 1/16[24 1:22 1													ريا	ह	eci:	our	- Lead														
_				UNPR	NO	NaOF	H2SO	E	NaHSC	ОТНЕ	eous	Drinking Water	Soil	Sludge	il Wasi	Groundwater	ad E200.														
BANKANIAN MARKANIAN DAGA PERCAMBANAN PARKAN PERCAMBAN PE	Sample Identification	Date/Time	e Sampled	S	w	-4-	4	Ţ.	4	~		er			e e	÷	0.8														
24011317-	GMS-104	1/16/24	1:22	1								Х					Х														
1	GMS-105		1:26	1								Х					Х														
Ú	1 106			1								Х					Х					<u> </u>									
	107		1	1								Х					Х									L					
015	[08		1:26	1								Х					Х									<u>L</u>					
016	109		+	1								Х					X								<u> </u>						
01)	110		1:28	1				T			Γ	Х					Х														
018	/11		1	1								Х					X														
019	112		-	1				T				Х					Х														
(7).0	RBE-01		1:52	1					-			Х					Х														
	Relinquished By			C	ate	/Ti	me									Re	ceive	ed By					Ţ			D	ate/T	me			
Budle	of Supple	9	1/18/2			li	0,1	DZ	5					<i>Y</i> (<u></u>		YY YY	t	- V				Ministration of the second of	1	[18] [9]	120	1	/(200)	

pg. 62 of 74 Work order #24011317

TEKLAB, INC. 5445 Horseshoe Lake Road - Collinsville, IL 62234 - Phone: (618) 344-1004 - Fax: (618) 344-1005

Client:	Geotech	nology, LL	.c										Ĭ.	Sar	npl	es (on:	*	ICE	S E	LUE	CE	∭ NC	ICE	_		0	,C	LTG	#		
Address:	11816 L	ackland Ro	oad									***************************************	*	Pre	ser	vec	l in	;	LAB	■ F	IELD			į	FOR	LAB	USE	ONI	<u>LY</u>		7°	
City / State	/ Zip St. Louis	, MO 631	46											Lab	No	tes	;															
Contact:	Brad Lohrum				Phone	} :	(3	314)	997-	-744	10																				3	
E-Mail:	blohrum@teamu	es.com			Fax:									Clie	nt C	on	ıme	ents	s:						. :						- ST	
Are these samples Are these samples Are there any requ limits in the comm	known to be haz lired reporting lim ent section.	rardous? its to be m Yes 🏻	Yes et on th	i ⊠ No ne requeste	ed analys	is?.	If ye	s, p	lease	e pr	X ovide																	· ·				
Project l	Name/Numbe	r		Sam	ple Co	llec	tor	's N	lam	ıe			L	<u>†</u>	AN	[RI	X				- 1	NDI	CAT	E AN	ALYS	SIS R	EQU	JEST	ED			
J04	4517.01			E	Brad Lo	ohi	un	1						Dri			Ş	ଦ୍ର	D₩													
Result	s Requested		Billin	g Instru	ctions	#	and	Ту	oe of	Co	ntain	ers	₽	몺	,,	ş	eci:	rou	-Le													
Standard			UNPRES	HNO	NaOF	H2SO4	된	MeOH	OTHER	Aqueous	Drinking Water	Soil	Sludge	al Wast	Groundwater	Lead E200.8							***************************************									
Lab Use Only	e/Time Sa	ampled	S	۳	-	4		4	. ~		er			æ	Ť	0.8																
2401347	40137 RBE-02 1/16/2													X					Х				\perp				┷		ļ			
012	RBE-0	3	ĺ	•	+	1							L	X	L				Х			\perp						$oldsymbol{ol}}}}}}}}}}}}}}}}}$				
623	10	4		1	:51	1								X					Х													
024	0	5			.58	1								X					Х									$oldsymbol{ol}}}}}}}}}}}}}}}}}$	ļ!			
025	0	Þ		i	:59	1								X					Х													
بلان	0	7		2	2:00	1								X					Х													
07.7	0	8		2	1:07	1								X					Х													
028	0	9			1	1								X					Х													
ત્રક	(9				1								X					Х													
030	1	ļ				1								X					Х													
	Relinquished	Ву				[Date	/Ti	me									Re	ceive	d By	-,,		,			,		ate/T	ime			
Browle		1/18/	2	<u> </u>									Ŋ					K-	12/	12		1/18/24										
	0	Hg	lles	,	1/19	/2	4	,	Pa	2,1	00	,	Amne										<u> </u>	1/19/74 1000								
																																

The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.teklabinc.com for terms and conditions.

BottleOrder:

80481



pg. 63 of 74 Work order # 24011317

TEKLAB, INC. 5445 Horseshoe Lake Road - Collinsville, IL 62234 - Phone: (618) 344-1004 - Fax: (618) 344-1005

				_								-				922	·05	[69]	S) (1)		500	NO 14	`			0	C					
Address: 11816 Lackland Road Pre																	ICE				[262]	NO I					_		#			
Address:											1	Pre	ser	ved	l in:		LAB	36	FIEL	D			F	<u>JR L</u>	AB I	USE	UNI	LY		Aptenni		
City / State	/ Zip St. Louis, MO 6	3146									1	Lab	No	tes	;															100		
Contact:	Brad Lohrum		_ Phone	: :	(3	14)	997-7	440																						1		
E-Mail:	blohrum@teamues.com		Fax:									lier	ıt C	on	me	nts	s:													,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
Are these samples	s known to be involved in	litigation? If ves.	a surcharge	will a	vlage	,	□ Y	es	X	No	1																					
	known to be hazardous'		No		.,,																											
	ired reporting limits to be ent section. Yes		ested analysi	i s ?.	If yes	s, pl	ease	prov	/ide		MATRIX INDICATE ANALYSIS REQUESTED															200						
Project	Name/Number	S	ample Col	llector's Name								ħ	ſΑľ	RI)	Κ					INE	OICA	TE/	NA	LYS	IS RI	EQU	EST	ED.				
J04	4517.01		Brad Lo	ohr	um						Dγ			S	ဝ	DW																
Result	s Requested	Billing Ins	tructions	#	and	Тур	e of	Con	taine	rs	À	Ž.		S	peci	rou	١ ا															
X Standard	1-2 Day (100% Surcharge)		_			_	Ι.,	, z	_	ue	ng	Soil	Sludge	al 1	ndı	Lead																
Other	3 Day (50% Surcharge)		NPR	Ż	힐	e of H2SO4	: e	: laHs	HE	S	Drinking Water		je	Special Waste	Groundwater	E200.8																
Lab Use Only	Sample Identification	e Sampled	ES.	۵		4		4	70		er			Ö	¥,	0.8								<u> </u>	<u> </u>	╙						
240113131	RBE- 12	2:03	1								Х					X							<u> </u>	<u> </u>	<u> </u>	<u> </u>						
032	RBE- 13		2:00	1				L				Х					X							<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>				
033	1 14			1							L	Х					Х						<u> </u>		<u> </u>	<u> </u>	ــــــــــــــــــــــــــــــــــــــ	<u> </u>				
Q34	15			1								Х					X							<u> </u>		<u> </u>	<u> </u>	 				
035	10		2:07	1								Х					X								<u> </u>	<u> </u>	igspace	┿				
036	[7		2:08	1								Х					Х						<u> </u>		<u> </u>	 	igspace	╄				
037	18		2:08	1					<u> </u>			X					Х						<u> </u>		lacksquare	<u> </u>	<u> </u>	<u> </u>				
038	19		2:09	1								Х					Х								igspace	<u> </u>	ـــــ					
039	20		2:10	1					<u>L</u> .			X	<u> </u>				Х								ļ	<u> </u>	<u> </u>					
040	1 21	2:11	1								X					Х										<u> </u>						
,	Relipquished By])ate	/Tir	ne									Re	ceive	ed B	у,					,			ate/T	îme				
Fare (en In		1/10/	24	-						to y Kg												1/18/24									
		2 lles	1/19 1	7									mry										1/19/24 1000									
								·										_														
l			1																				- 1									

The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.teklabinc.com for terms and conditions.

BottleOrder: 80481



pg. 64 of 74 Work order # 24011317

TEKLAB, INC. 5445 Horseshoe Lake Road - Collinsville, IL 62234 - Phone: (618) 344-1004 - Fax: (618) 344-1005

		Geotechnology, Li	С										1	Sa	m	nle	s n	n:	3 22	ICE	∭ BI	UE I	CE [N N	O ICE				°C		LTG	#	14.00			
į.	Address: 11816 Lackland Road Pr																				_ FI						LA	B U	_	ONL			100			
	/ 7 im	St. Louis, MO 631											-			Not			. —												_		SA CO SAGE			
City / State Contact:	Brad L	4			_ Phone	· .	(3	314)	997	-74	40		╴┃		• ~																		a e de verando			
E-Mail:	blohrur	n@teamues.com			_	~ .							-												*			-		-			*			
									1					Cli	en	t U	om	me	ents	5 :																
		to be involved in lit to be hazardous?				Will	appl	ly		Yes	S 124	N	٥																							
	ired rep	orting limits to be n				is?.	if ye	s, p	ieas	e pr	ovide	•																								
Project	Name	Number		S	ample Co	lec	tor	's l	lam	ıe		•	T		М	ΑT	RIX	(I	NDI	CAT	E AN	ALY	'SIS	RE	QUI	EST	ΞD					
.104	4517	01			Brad Le	ohi	run	า					r	_	,			S	0	DW						\top										
Result			Rilli	na ins	tructions				ntair	ners	┪		3		S	pec	rou	, ,			l					l										
Standard	1-2 Day	(100% Surcharge)	D 1131		11.00110113	c	Ļ		_		_ =	ž c	rueous			Soil	<u>ğ</u>	ial	ıμφ	Lead				l				į								
Other	3 Da	ay (50% Surcharge)				UNPRES	Ż	Ýa Ç	1250	된	MeOH	E E	Š	Actionis	<u>ج</u> ا		Sludge	Vas	Groundwater	E200.8																
Lab Use Only	Sam	ple Identification	D	ate/Tim	e Sampled	ES			4			<u> </u>		er	į			й	Ť	0.8																
24013[];	RB	E-22	1/1	6/24	2:11	1)	X					X							\bot									
OHL	RS	E-23	ľ	í	+	1							L		X					X		_					\perp	ightharpoonup								
043	1	24			2:12	1							L		X					X						丄	\bot									
044		25		1	4	1)	X					X																
045		26			2:13	1)	X					Х						ᆚ										
246		27			2:14	1)	X					X							\bot									
αΩ		28			2:17	1)	X					X																
018		29		2:18	1)	Χ					X				\perp			\bot	\dashv									
049		30			2:19	1)	Χ					X			\perp				_	\perp								
1757	4	31			2:20	1)	X					Х																
	Reli	nquished By				Į	Date	/Ti	me				T						Re	ceive	d By	,					7		Da	te/Ti	me					
Brolle	4) S		1/18/2	24	-							E) We											1/13/24													
	45	1/12/	/ 5	24	_	R) 12	90	ù		Amrig											1/19/24 1000														
			, ,	•	, ,								\perp			i.										•										
		· · · · · · · · · · · · · · · · · · ·																																		

80481

pg. 65 of 74 Work order # 24011317

TEKLAB, INC. 5445 Horseshoe Lake Road - Collinsville, IL 62234 - Phone: (618) 344-1004 - Fax: (618) 344-1005

			Gootophnology 11							_			T	Ça.		ioc	~~.	188	ICF	В	LUE	CE [NO.	ICE	****	****	o	С	LTG#	E	
	Address: 11816 Lackland Road Pr																			<u> </u>					OR I	ΔR		ONL			
1			St. Louis, MO 631										- [1000		[86]											
City / S		/ Zip Brad Lo						314	997	7_74	<u></u>		- [Lat	NC	lote	\$														\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
Contac				_	Phone	: :		J 14	, 551	-, -,	+0		-											· ·							
E-Mail:		DIOTTUT	n@teamues.com		Fax:											Coi	nm	ent	s:												
Are these sa	ımples	known	to be involved in lit	igation?	If yes, a surcharge	s, a surcharge will apply 🗌 Yes 🐰 No																									
			to be hazardous?																												
Are there an	y requ comm	ired rep ent sect	orting limits to be milion.	net on th No	e requested analys	is?.	If ye	28, F	pleas	e pr	OVIGE	•																			
			Number		Sample Co	lloc	-tor	'c 1	Jan				┰		MA	TR	Y				1	NDIC	ΔΤΕ	ΔΝΖ	LYS	IS R	FOU	EST	FD		
"					•				1011	130			H	Т	-	T	T	Γ.			Τ.	T		T	T	T	T			$\overline{}$	
		4517			Brad L								١,	Drinking Water			Sos	e e	DW-						-						
Re X Standard	sults	s Requ 1-2 Day	uested (100% Surcharge)	Billin	g instructions	#	and	I Ty	pe c	of Co	ntai	ners	Í	Ĭ <u>Ş</u> .	Ņ	Sludge	Special Waste	Groundwater	Lead												
Other			y (50% Surcharge)			S	၂	Z.	H2	I	<u>⊼</u> ₹		eoc	8	Soil	: <mark>l</mark> g	1	dw.	ō. m	Ì	1										
			J.	1		UNPRES	ပြွ	유	H2SO4	단	오	NaHER	S	ate			aste	ter	E200.8												
Lab Use C	morning	Sam	ple Identification	Dat	e/Time Sampled	Ľ	_				`		╄	+-	_		Ľ		-		\bot				_		<u> </u>	<u> </u>			
2401131	51	RB	E-32	1/11	6/24 2:20	1						\perp		X				L	Х						_	<u> </u>	<u> </u>	<u> </u>	1		
-		RB	E-33		2:21	1								X					Х												
	53	1	34		1	1	Γ	Γ			T			X			T		Х												
	54		35			1	T	Г			T	T	T	X	T		Π		Х												
	(3		ط3		2:22	1		Г				1	T	Tx			Г		Х		\top		1		T						
	57.0	1	37		+	1		Г				T	T	X					Х												
	57		<u>3</u> 8		2:23	1	T	<u> </u>					T	X	T	T			Х				1								
	57		39		+	1		T				T	T	X		T			Х					1							
	5G	+	40		2:24	1	T	H			\top	†	†	Tx	┿	1			Х	\neg	\top	1	1	1		1					\top
		- 	- 41		2:25	1	\vdash	┢┈		\dashv	+	\top	\dagger	X	4—	+	-		X		+	十	+	+	1		<u> </u>				
<u> </u>	<i>9</i> 0	Relin	quished By		- 1.00	Τ.	Date	/Ti	me				╁	1/\	1		<u> </u>	l Re		d By				+			Da	ate/Ti	me		
Buc	0.	Λ	1/18/21	7							Г	Received By										118/24									
nae	1/10/2		, (,		uħ.	100		1	Saving O										1/19/24 1000											
	1/19	1/19/24 10:00										-(<i>7</i> 1	Υ	, , ,	\sim	-			_	4/5	110	<u> </u>		VVC						

BottleOrder: 80481



APPENDIX D

LIMITATIONS OF REPORT

ENVIRONMENTAL SAMPLING LIMITATIONS OF REPORT

- The Report has been prepared on behalf of and for the exclusive use of the addressee, solely for use in documenting specific sample results. This report and the findings contained herein shall not, in whole or in part, be disseminated or conveyed to any other party, nor used by any other party in whole or in part, without the prior written consent of UES.
- 2. The sampling was performed in accordance with generally accepted practices of other consultants undertaking similar projects at the same time and in the same geographical area, and UES endeavored to observe that degree of care and skill ordinarily exercised by other consultants under similar circumstances and conditions. The findings and conclusions stated herein must be considered not as scientific certainties, but rather as professional opinions concerning the significance of the limited data gathered during the course of the project. UES does not and cannot represent that the site contains no hazardous waste or material, or other latent condition beyond that observed by UES.
- 3. In the event that information is developed relative to environmental or hazardous waste or material issues at the site and not contained in this report, such information shall be brought to UES' attention. UES will evaluate such information and, based on this evaluation, may modify the conclusions stated in this Report.
- 4. The conclusions and recommendations contained in this Report are based in part upon the data obtained from a limited number of water samples. The identified presence of contaminated water is limited to the extent that they could be identified by instrumentation and sampling and testing. There is a potential for contaminated water above the indicated concentrations to occur elsewhere on the site. The nature and extent of variations between these explorations may not become evident until further exploration. If variations or other latent conditions then appear evident, and/or if changes are made in regulations, it will be necessary to reevaluate the conclusions and recommendations of this report.
- 5. If quantitative laboratory testing was performed as part of the assessment by an outside laboratory, UES has relied upon the data provided, and has not conducted an independent evaluation of the reliability to these data.
- 6. Chemical analyses have been performed for specific parameters during the course of this sampling as described in the text. Do not assume that a given analyte is not present at the site simply because it was not present at the test locations. The analyte may exist on the site where tests were not performed. In addition, it should be noted that additional chemical constituents not tested for during the sampling could be present in water at the site.